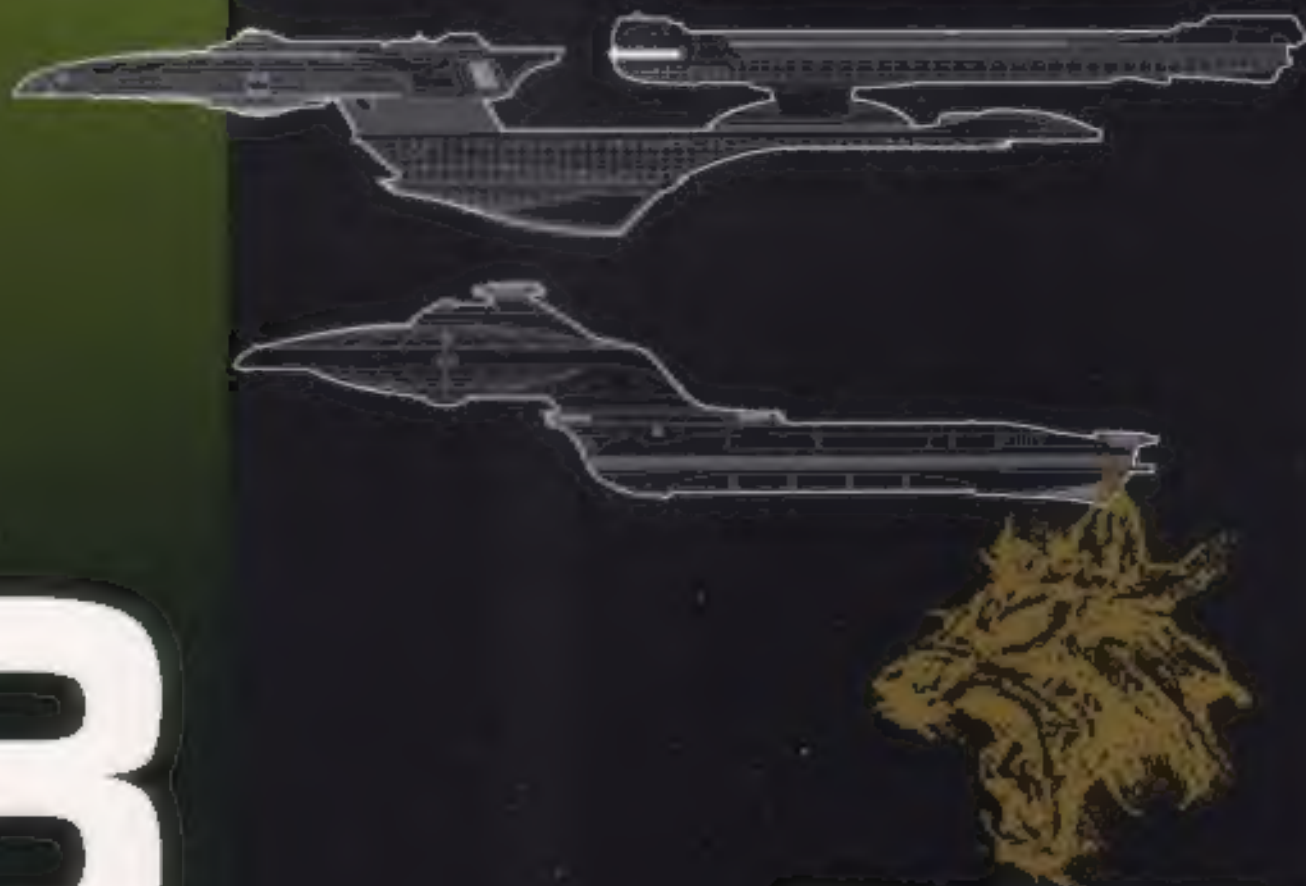


\$15.95



Jackill's STAR FLEET REFERENCE MANUAL

Ships of the Fleet Volume III



3

Written and Illustrated by
Eric Kristiansen

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Dedication

INTRODUCTION

GENERAL INFORMATION

To Chris Hatfield

Thanks for all of your help on my books

Intro Info

Welcome reader to the first edition of Jackill's Star Fleet Reference Manuals. The descriptions of these futuristic vessels are a critique of their abilities and are related in contemporary terms as accurately as possible. The technology described here can be compared to existing technologies in other books, on television and in the movies. Hopefully, the information herein will provide a base of knowledge allowing one to understand the advancements required to achieve this level of technology. The book is presented in a futuristic format for reading enjoyment and should not be confused with any material from that time period.

The information contained in this manual is as accurate as allowed due to Star Fleet's ongoing program of misinformation intended to confound and confuse the intelligence efforts of potentially threatening forces. For high-level accuracy, consult Star Fleet archives.

Although not all statistics are given, all descriptions, drawings and statistics are intended to familiarize the reader with these vessels. Numerical statistics, such as weight and length, are given with the highest degree of accuracy available at the time of publication.

Read on fellow traveler, I hope that the information provided will increase your understanding of Life, the Universe and Everything.

Jackill

Contents

Intro page	SRM3 01:01:01:01
Statistics	SRM3 01:02:01:01
Shuttle Intro / Size	SRM3 02:01:01:01
Cargo Shuttle	SRM3 02:02:01:01
Heavy Assault Shuttle	SRM3 02:02:02:01
Heavy Fighter	SRM3 02:02:03:01
Shutlug (Tug Shuttle)	SRM3 02:02:04:01
Passanger Shuttle	SRM3 02:02:05:01
DockPort Shuttles	SRM3 02:03:01:01
Bouys	SRM3 03:01:01:01
Starship Introduction	SRM3 04:01:01:01
Ship Size Comparison	SRM3 04:02:01:01
Cruiser	SRM3 04:02:01:01
Dreadnought	SRM3 04:02:02:01
Heavy Cruiser	SRM3 04:02:03:01
Heavy Cruiser Upgrade	SRM3 04:02:04:01
Light Cruiser	SRM3 04:02:05:01
Tactical Cruiser	SRM3 04:02:06:01
Through Deck Cruiser	SRM3 04:02:07:01
Destroyer	SRM3 04:02:08:01
Frigate	SRM3 04:02:09:01
Heavy Frigate	SRM3 04:02:10:01
Scout	SRM3 04:02:11:01
Transport/Tug	SRM3 04:02:12:01
Support Craft	
Bulk Cargo Carrier	SRM3 04:03:01:01
Cargo Drone	SRM3 04:03:02:01
Freighter	SRM3 04:03:03:01
Supply Tender	SRM3 04:03:04:01
Transport Ship	SRM3 04:03:05:01
Deuterium Tanker	SRM3 04:03:06:01
Neutronic Fuel Carrier	SRM3 04:03:07:01
Starliner	SRM3 04:03:08:01
Bouy Tender	SRM3 04:03:09:01
Heavy Tug	SRM3 04:03:10:01
Tug	SRM3 04:03:11:01
Container Warp Engine	SRM3 04:04:01:01
Warp Field Extender	SRM3 04:04:02:01
Containers	SRM3 04:05:01:01
Closing	SRM3 05:01:01:01

Book _____ SRM3 01:01:01:01
 Chapter _____
 Section _____
 Ship _____
 Ship Detail _____

INTRODUCTION

INTRODUCTION

Statistics

This is an overview of what some of the statistical information you will run across in this reference manual mean.



Acceleration Power: Is the value that a warp number is raised to to determine its speed as a multiple of light.

Acceleration Rate: Lists the various times it takes to accelerate the vessel through sublight speeds.

Acceleration Time: Lists the time it takes to accelerate from one warp value to the next. It should be noted that although an acceleration time may be given, the craft may not be designed to reach that speed without disintegration.

Beds: Lists the number of beds in the medical facility.

Bottom Profile: This profile is used for familiarization of the bottom view of the vessel.

Breachdown Rate: Is the amount of power in watts that will eventually break down the shields if applied constantly.

Brigs: Lists the number of detention cells.

Cargo Specifications: Lists the number of standard cargo units and the cargo capacity of all the containers.

Category: Lists the general classification of the ship such as freight, destroyer, freighter, etc.

Class Emblem: Each ship class is given a distinct logo design to represent the entire class.

Classification: Lists the exact designation of the craft, such as assault frigate or attack frigate.

Class: Is the name assigned to distinct vessel designs to distinguish one design from another. An example being one heavy cruiser from another heavy cruiser design.

Shielding Device: Lists if the vessel is equipped with a shielding shield.

CPU: Central Processing Unit (Computer).

Computers: Lists the number and type of computers onboard.

Cross Section: This cut away view is used for general familiarization of the interior arrangement of the vessel.

Cross Section Area: Lists the optimum cross section area that the warp field has for each profile.

Disruptive Speed: Is the speed at which the vessel will start to tear apart due to excessive stress.

Dimensions: Listed in meters for various parts of the ship from the primary hull to the propulsion systems.

Doctors: Lists the number of medical doctors that are normally onboard.

Dry Dock Area Usage: Gives the usable construction area inside the dry dock for its standard configuration.

Dry Dock Profile: Gives top, port and front views of the dry dock with an Enterprise Class Heavy Cruiser used to give a reference of the facility's size.

Duration: Is given for both standard (years between upgrades and maintain (maximum years until the craft must be rebuilt) missions.

ECM Index: Is given as general guide to the craft's ability to evade detection. The index norm is based on the Heavy Cruiser.

Emergency Condition: Is the additional number of people that the craft can carry in an emergency.

Emergency Speed: Lists the fastest that the craft can travel for very short periods of time. The longer the craft travels at this speed the more the engines and hull are damaged.

Field Length: Is the optimum warp field length needed to construct.

Field Width: Is the optimum warp field width listed in meters.

Front Profile: This profile is used for familiarization of the front view of the vessel.

General Information: Is used to deliver additional information about the vessel.

Shield Power: Is given in watts and determines the power level that will breach the shields.

Ric (Hertz): Cycle per second.

Impulse Engine Output: Lists the engine output in watts.

Impulse Power Index: Is given as general guide to the vessel's overall impulse power. The index norm is based on the Heavy Cruiser.

Impulse Unit: Lists the impulse engine model number.

Laboratories: Lists the number of individual laboratories.

Max. Cruising: Lists the maximum speed that the impulse drive can propel the vessel.

Maximum Speed: Lists the fastest that the vessel can travel for short periods before complete engine destruction.

Max. Safe Cruising: Lists the warp that the vessel can travel without substantial decrease in handling and safety. This speed is the fastest that the craft can travel without damaging the engines.

Medical Facilities: List the statistics of the medical facility.

Model: Is a Roman numeral that is distinct to each vessel category for each type/class.

Naval Construction Contract: Lists the number series assigned to that particular vessel series for construction and vessel registration.

Number Constructed: Lists how many vessels have been built.

Number in Service: Lists how many vessels are on active duty.

Number Lost: Lists how many vessels have been destroyed or decommissioned for various reasons.

Number Proposed: Lists the number of vessels that are to be built.

Person: Lists the number of persons that are normally aboard.

Operating Speed: Lists the number of fully equipped operating rooms.

Optimum Warp: Lists the warp that the vessel travels with the best fuel-distance ratio with minimal wear to the engines.

Output: Listed in watts for each shot for both burst and continuous fire, if available.

Passenger: Lists the number of passengers that the craft may carry.

Port Profile: This profile is used for familiarization of the port view of the vessel.

Phaser Power Index: Is given as general guide to the vessel's phaser power. The index norm is based on the Heavy Cruiser.

Photon Power Index: Is given as general guide to the vessel's photon torpedo power. The index norm is based on the Heavy Cruiser.

Primary Reactor Output: List the output of the primary power source in watts.

Range: Is the weapons effective range.

Rate of Fire: Lists the number of shots per minute that the weapon is able to fire.

Rear Profile: This profile is used for familiarization of the rear view of the vessel.

Refuel Rate: Is given in watts and shows how fast the shields will replenish themselves.

Replicators: Lists the vessel's ability to create materials and equipment.

Secondary Reactor Output: List the output of the secondary power source in watts.

Sensor Index Value: Is a general guide to the vessel's sensor abilities. The index norm is based on the Heavy Cruiser.

Shield Dimensions: Listed in meters for the normal spanning dimensions of the shields.

Shield Index: Is given as general guide to the vessel's overall shield power. The index norm is based on the Heavy Cruiser.

Shield Rating: Lists the specification of the shields.

Ship Name: Is an alphabetical listing along with their naval construction contract numbers for the vessels that have been authorized for construction.

Shuttlecraft Bay: Listed below are the general dimensions for each category of shuttlecraft bay.

Small Bay: Landing area dimensions of 20-800 sq.m with a normal deck height of 2.4-6 meters. Vehicle storage area dimensions of 20-800 sq.m with a normal deck height of 2.4 meters.

Medium Bay: Landing area dimensions of 800-2000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 800-2000 sq.m with a normal deck height of 2.4 meters.

Large Bay: Landing area dimensions of 2000-10000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 2000-10000 sq.m with a normal deck height of 2.4-3.2 meters.

Super Bay: Landing area dimensions of 10000+ sq.m with a normal deck height of 6-12 meters. Vehicle storage area dimensions of 10000+ sq.m with a normal deck height of 2.4-4.8 meters.

Shuttlecraft Specifications: Lists the number of docking ports, shuttlecraft types, number and type of shuttlecrafts and lifeboats.

Silhouette: Is given for both recognition and to show the vessel's target area from various profiles. The smaller the area, the harder the ship is to target from that profile. The area values do not take into consideration the vessel's electronic counter measures.

Side Comparison: Gives port views for a comparison of the vessel's size in relation to other vessels.

Speed vs. Time: Is a graph that shows warp speed vs. time.

Sid. Ship Complement: Is the standard number of crew members for the vessel. The listing is broken up into Officers, Crew and Troops.

Stock: Is given if the weapon has a finite supply of shots.

Telemetry: Lists the number of communication channels available for transmission of data and the power output of those transmissions listed in watts.

Top Profile: This profile is used for familiarization of the top view of the vessel.

Total Target Area: Is created by adding the top, port and front areas to give a generalization of the vessel's overall target size.

Tractor Beam Specifications: Uses a tractor beam load calculator to calculate range vs. tonnage at each warp speed (See Tractor Beam on page SRM1 05:01:01:01 for information on how to use).

Tractor Beam: Is given for both the max. range and tow capacity.

Transports: Lists the total number and type of units.

Type: Is a general term used to categorize the crafts abilities.

Class 1: Is used for starships that are designed with flexibility in their operating parameters.

Class 2: Is used for support ships that are designed for a specific mission and don't have much flexibility in their design.

Class 3: Is used for space station and habitable space facilities. The general rule is that the complex has recreational facilities and permanent residences.

Class 4: Is used for space facilities such as dry docks and refineries, generally not used as habitable environments.

Class 5: Is used for shuttlecraft and small support vessels.

Class 6: Is used for automated craft and facilities with little or no habitable environment provided for in the design.

Class 7: Is used to designate non-powered, space-going vessels such as cargo containers.

Class 8: Is used to designate ferries such as torpedoes, probes and buoys.

Vessel Power Index: Is given as general guide to the craft's overall weapon power. The index norm is based on the Heavy Cruiser.

Warp Engine Output: Lists the internal chamber output in watts.

Warp Fields: Shows the field curvature around the vessel at optimum field configuration. The more slender the lateral field the less energy needed to propel the craft through space.

Warp Power Index: Is given as general guide to the craft's overall warp power. The index norm is based on the Heavy Cruiser.

Warp Speed/Power Graph: Is a two-sided graph used to show the power consumption based on the speed of the vessel.

Warp Unit: Lists the warp drive model number.

Weapon (Type) Total: Gives the number of barrels/bays and how many photons/tubes per barrel/bay. (A weapon location is given for the position of each weapon facing and can be used as a general guide of the weapon's angle of attack).



General Information

A large number of small support vehicles are required by Starfleet in order to carry out various missions such as construction, transportation and defense. Most shuttlecraft are designed for almost continuous duty, especially cargo and personnel craft. These vehicles often provide support and maintenance when a star-vessel's main systems are off-line in space dock, transporters are unsuitable for a particular mission or a larger vessel is not needed for the job.

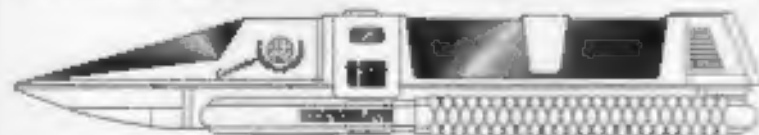
Size Comparison



Cargo Shuttle



Standard Shuttle (DockPort)



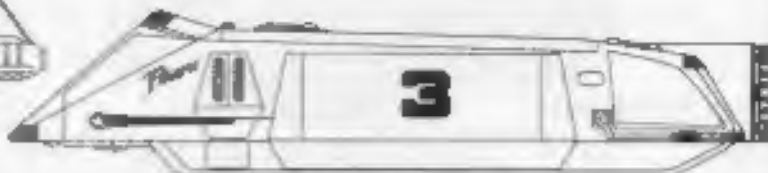
Passenger Shuttle



Light Shuttle (DockPort)



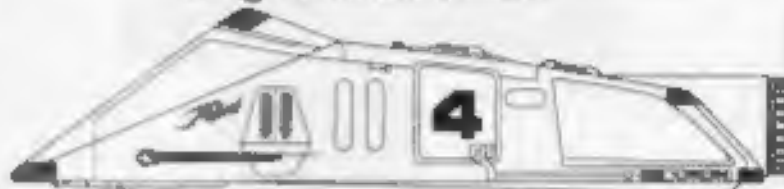
Heavy Assault Shuttle



Cargo Shuttle (DockPort)



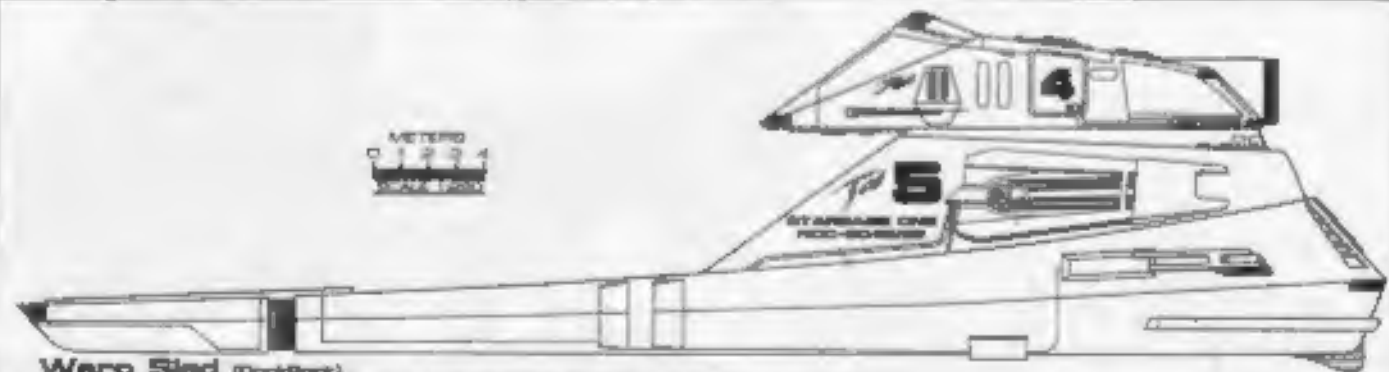
Heavy Fighter



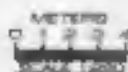
Long Range Shuttle (DockPort)



Shutug (Tug Shuttle)



Warp Sled (DockPort)



CARGO SHUTTLE



General Information

Specific Role: The Cargo Shuttle's primary mission is supply and bulk goods transport. All starbases have fleets of cargo shuttles and starships usually have one or two. Even the most sophisticated transporter system achieves an efficiency rating of 34%. Most shuttle engines however, have a 73% efficiency rating at normal output therefore, making it still cheaper to transport bulk goods by shuttle.

Physical Description: The Cargo Shuttle's boxy hull is equipped with two doors on either side of the cockpit. An exterior utility access panel, just aft of the port-side personnel hatch, provides power and refueling hookups while the shuttle is being loaded and unloaded. The crew sit beneath the large canopy in the nose of the craft. No Phasers are included in the standard configuration. Propulsion is provided by (SIS12-2/50) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

Class Silhouettes

Total Target Area 244.89 m²



Top Silhouette
Area 143.18 m²



Port Silhouette
Area 98.01 m²



Front Silhouette
Area 33.70 m²

Statistics

Classification: Cargo Shuttlecraft
Category: Shuttlecraft
Class: Gypsy
Type: Class 5
Model: MK-XXV
Naval Construction Contract: C8-05
Dimensions:
Overall Dimensions (Meters)
Length: 17.00m
Width: 9.50m
Height: 4.75m
Displacement (Metric Tons)
Light: 12.20mt
Standard: 13.50mt
Full Load: 15.50mt
Performance:
Impulse Units: (SIS12-2/50)
Impulse Engine Output: 2.0x10⁸ W
Max Cruising: C
Acceleration Rate:
0.00-0.25 Impulse: 0.244 sec.
0.25-0.50 Impulse: 0.316 sec.
0.50-0.75 Impulse: 0.369 sec.
0.75-Full Impulse: 0.460 sec.
Warp Units: 0
Warp Engine Output: N/A
Optimum Speed: N/A
Max. Sub-Cruising: N/A
Emergency Speed: N/A
Max. Speed: N/A
Destructive Speed: N/A
Acceleration Power: N/A
Acceleration Times:
Warp 1 - Warp 2: N/A
Warp 2 - Warp 3: N/A
Warp 3 - Warp 4: N/A
Warp 4 - Warp 5: N/A
Warp 5 - Warp 6: N/A
Warp 6 - Warp 7: N/A
Warp 7 - Warp 8: N/A
Warp 8 - Warp 9: N/A
Warp 9 - Warp 9.5: N/A
Warp 9.5 - Warp 9.75: N/A
Warp 9.75 - Warp 9.9: N/A
Duration (Years)
Standard: 5 Years
Maximum: 20 Years
Std. Ship Complement: 1
Crew: 1
Passengers: 16
Emergency condition: >10
Transmissions Total: 1
1 Person: 0
2 Person: 1
3 Person: 0
Small Cargo: 0
Medium Cargo: 0

Tractor Beams: 1
Tow Capacity: 7.82x10⁷mt
Max Range: 9.35x10¹⁰km
Cargo Specifications:
Standard Cargo Units: 4
Cargo Capacity: 10.55
Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.000
Stellar Survey: 0.000
Short Range: 1.103
Long Range: 0.955
Navigation: 0.997
Special: 0.890
Comesars: 2
Type: Normy-Magne 21:
Type: Normy-Magne 14:
Shield Rating:
Shield Power: 4.58x10⁸ W
Rebreath Rate: 1.98x10⁸ W
Breakdown Rate: 1.99x10⁸ W
Shield Dimensions (Meters)
Length: 19.17m
Width: 12.45m
Height: 5.75m
Weapons:
Weapon Placement:
Beams (Phasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward Banks: 0
Rear Banks: 0
Port Banks: 0
Starboard Banks: 0
Upper Banks: 0
Lower Banks: 0
Beams (HeavyPhasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Missiles (Photon) Total: N/A
Beam: N/A
Range: N/A
Output: N/A
Rate of Fire: N/A
Forward Bay: 0
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

Craft Emblem

Gypsy Class
CARGO SHUTTLE





CARGO SHUTTLE

GYPSY CLASS

FEDERATION CRAFT

Main Gangway Hatch

EARTH SPACEDOCK



PORT PROFILE

Impulse Engines (2)

ViewPort

Sensor Array

Rear Cargo Hatch

TOP PROFILE

METERS
0 0.5 1 1.5 2
SCALE 1:95

Impulse Engines (2)

Rear Cargo Hatch

Forward Sensor Array

BOTTOM PROFILE

Forward Sensor Array

ViewPort

Rear Cargo Hatch

FRONT PROFILE

REAR PROFILE

HEAVY ASSAULT SHUTTLE



General Information

Specific Role: The Heavy Assault Shuttle is used for precision assault and with its thick armor can deliver troops under brutal fire. It is designed to be crewed by a pilot and gunner/navigator, but can operated by the pilot alone should the gunner/navigator become incapacitated or be unavailable at launch. For the purposes of planetary assault the Heavy Assault Shuttle is capable of .92 C in most atmospheres and can achieve warp at sub-orbital altitudes. The shock waves from such maneuvers can be as destructive as orbital bombardment.

Physical Description: The Heavy Assault Shuttles reinforced hull subtly resembles the head of an Earth snake called the Cobra. The crew, seated in the cockpit, is covered by an armored-limited view canopy with a 100 degree field of view for defensive purposes. A (SMDN12/2-6) navigational sensor assembly is located under the front portion of the craft. The shuttle is equipped with rapid cycle (BP2/12-10P) phasers mounted on either side of the hull just below the canopy reinforcement buttress. Located underneath the cockpit are (PB2/12-12A) photon missile launchers which are extruded down sufficiently to clear the forward sensor pod. Sub-light propulsion is provided by the impulse units located on the rear section of the craft on each side of the gangway hatch. Warp power is provided by (SX12/1-5BX) micro-nacelles mounted on each side of the hull.

Class Emblem



Statistics

Classification: Heavy Assault Shuttle

Category: Shuttlecraft

Class: Ogre

Type: Class 5

Model: MC-30V

Naval Construction Contract: AS-42

Dimensions:

Overall Dimensions (Meters)

Length: 15.52m

Width: 5.40m

Height: 3.10m

Displacement (Metric Tons)

Light: 7.25mt

Standard: 7.53mt

Full Load: 8.42mt

Performance:

Impulse Units: Dual Unit (D35E4-UP)

Impulse Engine Output: 8.5×10^8 W

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.125 sec.

0.25-0.50 Impulse: 0.187 sec.

0.50-0.75 Impulse: 0.250 sec.

0.75-Full Impulse: 0.312 sec.

Warp Units: 2 Nacelle Units (SX12/1-5BX)

Warp Engine Output: 2.8×10^7 W

Optimum Speed: Warp 2

Max. Safe Cruising: Warp 3

Emergency Speed: Warp 4

Max. Speed: Warp 4.4

Destructive Speed: Warp 4.8

Acceleration Power: 3.0

Acceleration Times:

Warp 1 - Warp 2: 2.215 sec.

Warp 2 - Warp 3: 2.697 sec.

Warp 3 - Warp 4: 5.124 sec.

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

Rotation (Turns)

Standard: 5 Years

Maximum: 20 Years

Std. Ship Complement: 1

Crew: 2

Passenger: 18

Emergency condition: +10

Compartments Total: 1

3 Persons: 0

2 Persons: 1

6 Persons: 0

Small Cargo: 0

Medium Cargo: 0

Tractor Beams: 1

Tow Capacity: 8.20×10^4 mt

Max Range: 7.54×10^4 km

Cargo Specifications:

Standard Cargo Units: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Decking Parts: 0

Cockling Devices: 0

Sensor Index Values:

Maneuver Survey: 1.484

Stellar Survey: 0.942

Short Range: 1.268

Long Range: 1.110

Navigation: 0.988

Special: 1.155

Commuters: 2

Type: Normy-Magna 20 u

Type: Normy-Magna 17 g

Shield Rating:

Holdoff Power: 5.26×10^8 W

Refresh Rate: 1.83×10^8 W

Breakdown Rate: 1.89×10^8 W

Shield Dimensions (Meters)

Length: 18.89m

Width: 7.825m

Height: 5.03m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 8 Mounts

Output: 5.0×10^8 W / 2.5×10^8 W

Range: 2.5×10^3 km

Rate of Fire: 20 ppm / Cont.

Forward Banks: 0

Rear Banks: 0

Port Banks: 3

Starboard Banks: 3

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Photon) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Missiles (Photon) Total: 4 Tubes

Stock: 30

Range: 2.0×10^3 km

Output: 5-11 Megatons

Rate of Fire: 10 ppm

Forward Bay: 4

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Craft Silhouettes

Total Target Area 116.11 m^2



Top Silhouette

Area 71.81 m^2



Port Silhouette

Area 25.48 m^2



Front Silhouette

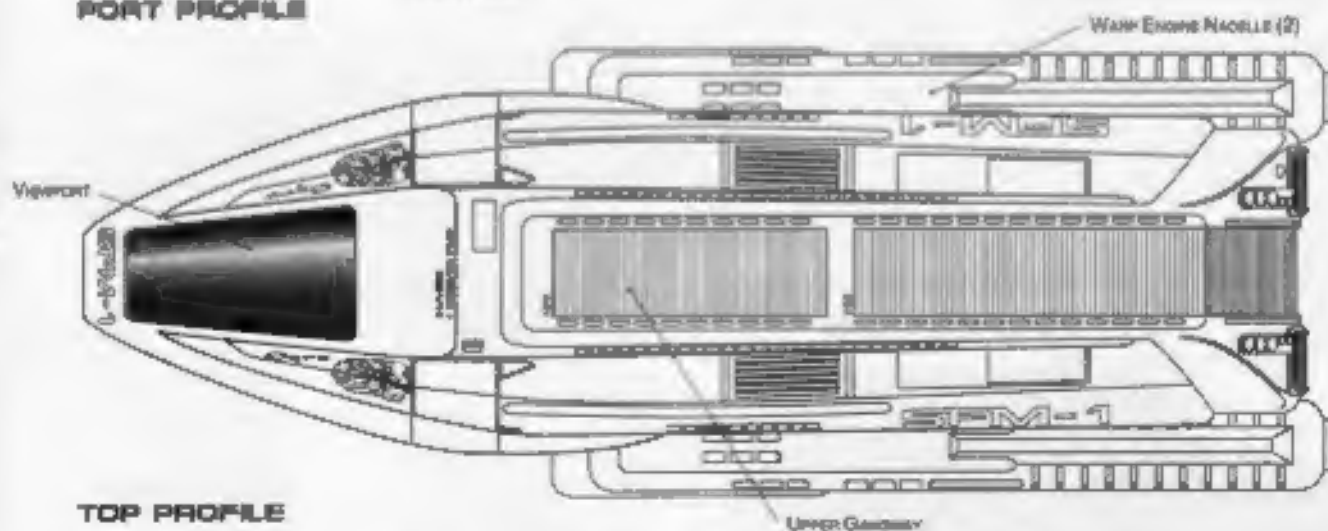
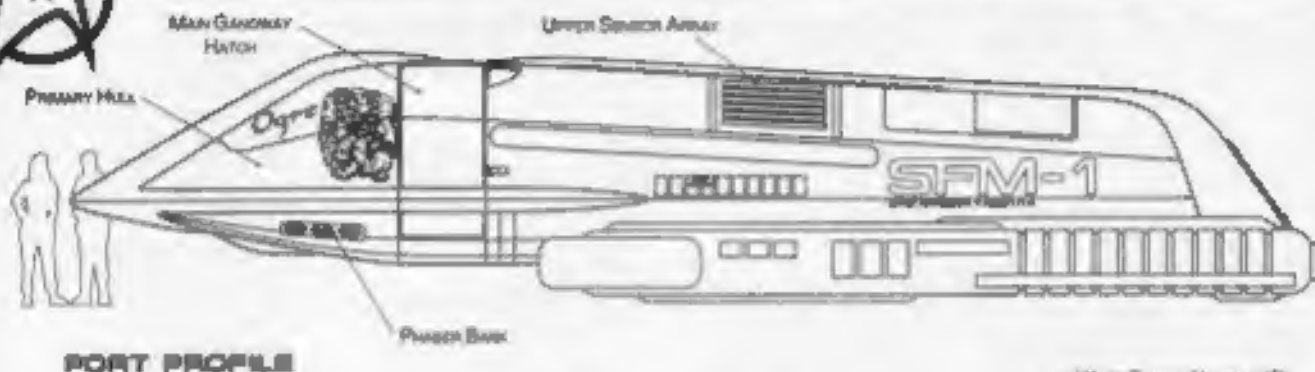
Area 11.16 m^2



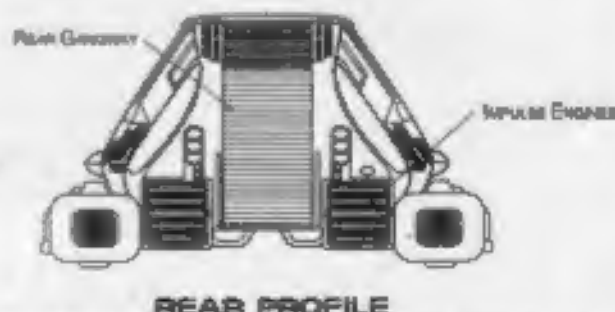
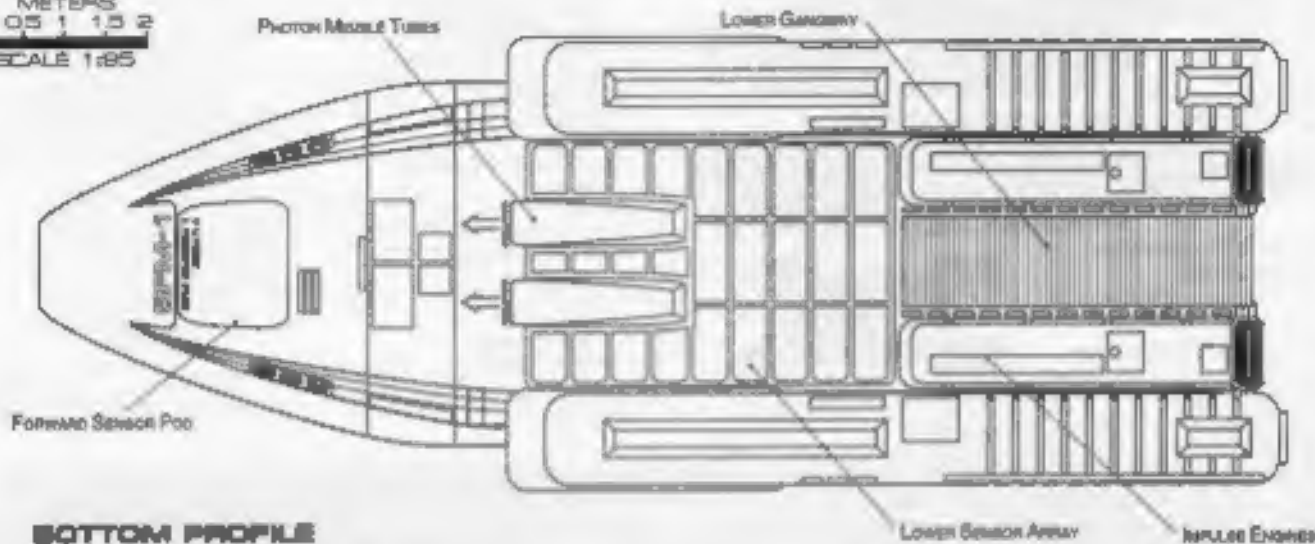
HEAVY ASSAULT SHUTTLE

OGRE CLASS

FEDERATION CRAFT



METERS
0 0.5 1 1.5 2
SCALE 1:85



HEAVY FIGHTER



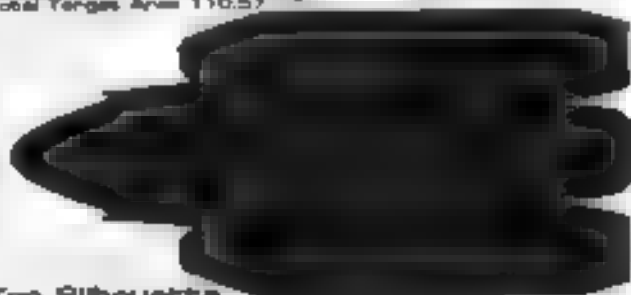
General Information

Specific Role: The Heavy Fighter is used for perimeter defense, landing craft support and direct capital ship engagement. It is crewed by a pilot, navigator and weapons officer. In emergencies the fighter may be operated less effectively by just the pilot. For the purposes of planetary assault the Heavy Fighter is a limited effectiveness atmosphere and can achieve warp 1 without initial acceleration. The shock waves from such maneuvers can be as destructive as orbital bombardment.

Physical Description: The Heavy Fighter's distinctive low silhouette and lack of offensive weaponry is easily identified. The crew section of the cockpit is a strategic formation with pilot up front, navigator in a large canopy with a 360 degree field of view for excellent stability. A (SM)DN22 5000 tonne sensor assembly is mounted on the underside of the craft. The fighter is equipped with rapid response P2 24 & heavy phasers mounted on either side of the hull just below the canopy and 4 on 1 aft in either case of the fuselage arm (P2 24 NA phaser missile launchers which are independently powered so that a mutuality power could be emitted if the phasers during battle. Sub high propulsion is provided by the impulse unit located at the rear of the craft. Warp power is provided by two (SW20.2 4AF) micro nacelles mounted on each side of the hull.

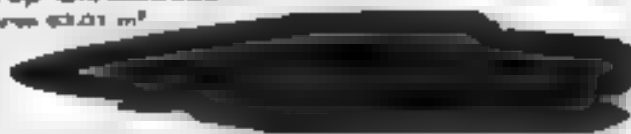
Craft Silhouettes

Total Target Area: 110.57 m²



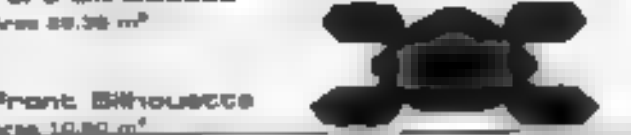
Top Silhouette

Area: 63.01 m²



Port Silhouette

Area: 59.36 m²



Front Silhouette

Area: 10.80 m²

Statistics

Classification: Heavy Fighter
Category: G/F
Class: Yellow Jacket
Type: Area 5
Model: 100.00
Racial Construction Control: B/J
Dimensions:
 Overall Dimensions (Meters)
 Length: 1.0m
 Width: 1.0m
 Height: 1.0m
 Displacement (Metric Tons)
 Light: 1.0m
 Standard: 1.0m
 Full Load: 1.0m

Performance:
 Impulse Data: Dual Pack (P224 4GB)
 Impulse Engine Output: 1.0x10¹⁰ W
 Max Cruising:
 Acceleration Rate:
 0.00-0.25 Impulse: 0.10¹⁰ W
 0.25-0.50 Impulse: 0.55¹⁰ W
 0.50-0.75 Impulse: 0.70¹⁰ W
 0.75 Full Impulse: 0.75¹⁰ W
 Warp Coils: 2 (Heavy) (SW20.2 4AF)
 Warp Engine Output: 4.8x10¹⁰ W
 Optimum Speed: Warp 6
 Max. Safe Cruising: Warp 7
 Emergency Speed: Warp 8
 Max. Speed: Warp 8.5
 Destructive Speed: Warp 9.5
 Acceleration Time:
 Warp 1: Warp 2: 0.40 sec
 Warp 2: Warp 3: 0.22 sec
 Warp 3: Warp 4: 0.84 sec
 Warp 4: Warp 5: 1.50 sec
 Warp 5: Warp 6: 1.22 sec
 Warp 6: Warp 7: 1.32 sec
 Warp 7: Warp 8: 0.85 sec
 Warp 8: Warp 9: 2.41 sec
 Warp 9: Warp 9.5: 5.35 sec
 Warp 9.5: Warp 10: 7.5 NA
 Warp 10: Warp 10.5: NA

Supply Data:
 Standard: 7 years
 Maximum: 4 years
Min. Ship Complement: 3
 Crew:
 Passengers: 0
 Emergency condition: 10
Emergency Total: 0
 1 Person: 0
 2 Person: 0
 3 Person: 0
 Small Cargo: 0
 Medium Cargo: 0

Tractor Beams:
 Tow Capacity: 3.20x10¹⁰ m
 Max Range: 3.30x10¹⁰ m
Cargo Specifications:
 Standard Cargo Units: NA
 Cargo Capacity: NA
Shuttlecraft Specifications:
 Docking Ports: 0
Cloaking Device: 0
Sensor Index Values:
 Planetary Survey: 776
 Stellar Survey: 6.008
 Short Range: 45
 Long Range: 160
 Navigation: 0.008
 Special: 0.57
COMBAT: 7
 Type: Heavy-Magne 24 g
 Type: Heavy-Magne 10 h
Shield Rating:
 Modest Power: 5.24x10¹⁰ W
 Refresh Rate: 7.8x10¹⁰ W
 Breakdown Rate: 1.2x10¹⁰ W
Shield Dimensions (Meters):
 Length: 4.40m
 Width: 6.6 m
 Height: 2.82m

Weapons:
Weapon Placement:
 Beam (Phasers) Total: 2 Mounts
 Output: 5.0x10¹⁰ W 2.5x10¹⁰ W
 Range: 2.5x10¹⁰ km
 Rate of Fire: 45 ppm Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 0
 Upper Banks: 0
 Lower Banks: 0
 Beam (Heavy Phasers) Total: 5
 Output: 7.5x10¹⁰ W 3.75x10¹⁰ W
 Range: 4.0x10¹⁰ km
 Rate of Fire: 30 ppm Cont.
 Forward/Rear Banks: 6
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Missiles (Photon): Total: 5 Tubes
 Stock: 100
 Range: 2.0x10¹⁰ km
 Output: 5.1x10¹⁰ W
 Rate of Fire: 10 ppm
 Forward Bay: 5
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

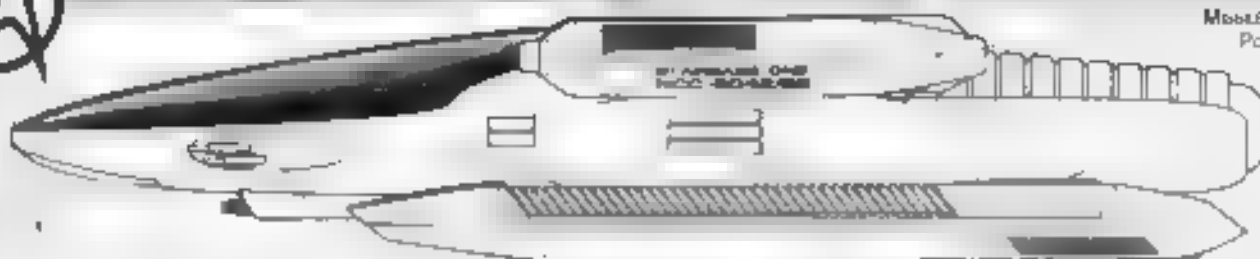
Class Emblem





HEAVY FIGHTER

MOBILE TUBE
POD

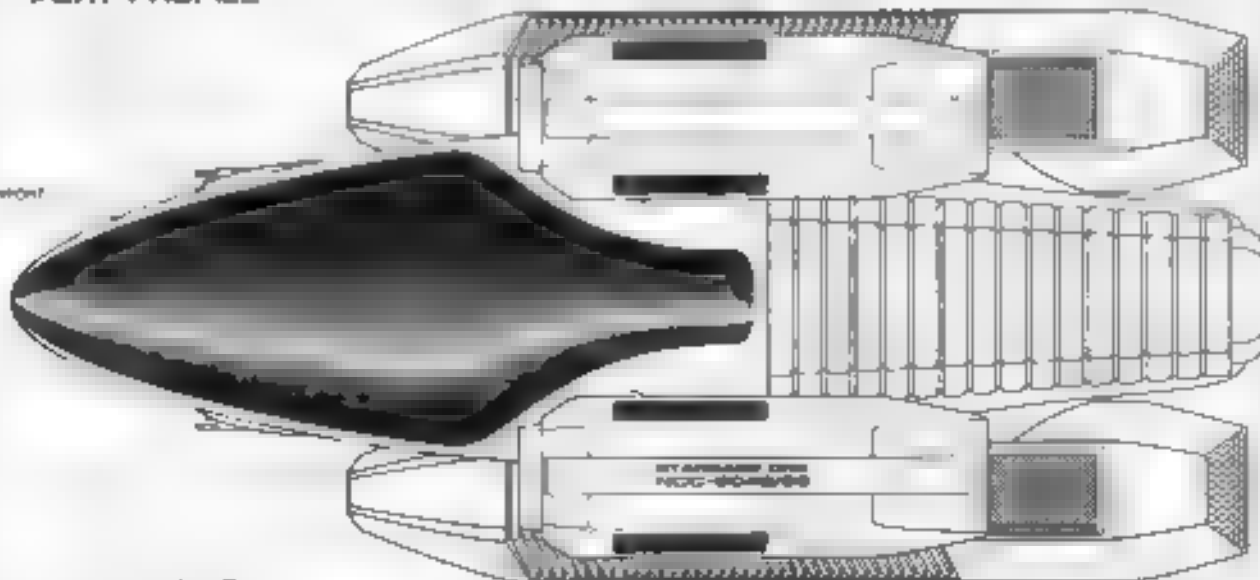


PORT PROFILE

PHASER BANK (2)

WARP ENGINE NOZZLE # (2)

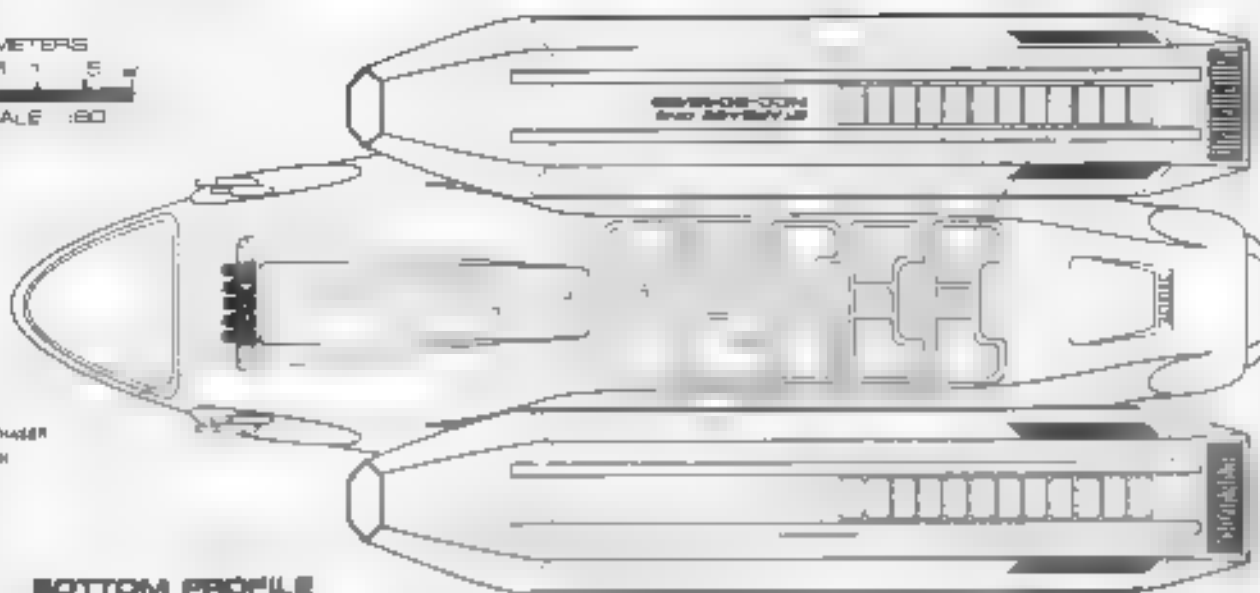
VISOR



TOP PROFILE

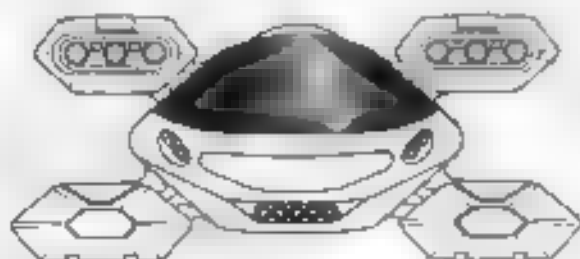
LOWER SENSOR ARRAY

METERS
0 0.5 1 5
SCALE :60



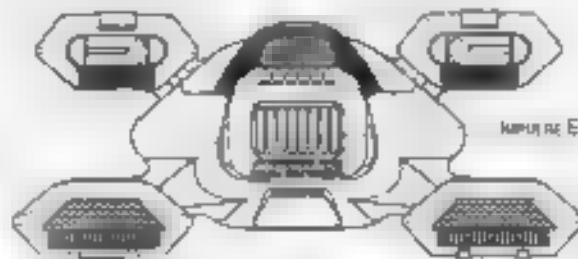
HEAVY PHASER
BANK

BOTTOM PROFILE



FRONT PROFILE

MOVIE
TUBE



WARP ENGINE

REAR PROFILE

SRM3 02:02:03:02

STARFLEET REFERENCE MANUAL

STARFLEET REFERENCE MANUAL

STARFLEET REFERENCE MANUAL

SHUTUG



General Information

Specific Role The Shutug is small and powerful tractor beam tow vehicle. It is primarily used around space-docks and planetary facilities. Since this craft was designed strictly for support duty it does not need warp engines. However, two Shutugs have enough impulse power to safely move a Heavy Cruiser.

Physical Description The Shutugs bony hull is equipped with two doors on either side of the cockpit. The pilot and tractor beam technician sit beneath the large canopy in the nose of the craft. Positioned on the front and on the top of the shuttle are (SNPA12/2.7) navigational sensor arrays. No Phasers are included in the standard configuration. Propulsion is provided by (SIS10-2/100) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

Class Silhouettes

Total Target Area: 187.30 m²



Top Silhouette

Area: 59.80 m²



Port Silhouette

Area: 48.81 m²



Front Silhouette

Area: 69.41 m²

Statistics

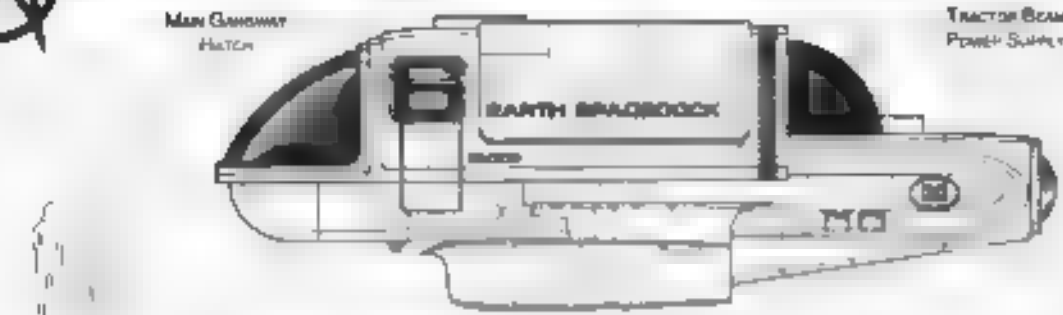
Classification: Sh. ug (Shuttle Tug)
CATEGORY: Tractorcraft
Class: Tractorcraft
TYPE: -ast
Model: SM-23IV
BATH Construction Contract: CS-04
Construction:
Overall Dimensions (Meters):
 Length: 5.1m
 Width: 1.05m
 Height: 4.85m
Displacement (Metric Tons):
 Light: 5.25m
 Standard: 0.45m
 Full Load: 2.50m
Performance:
 Impulse Units: 788 0-2/100h
 Impulse Engines Output: 6.7x10⁶ W
 Max Cruising: C
 Acceleration Rate:
 0-00-0.85 Impulse: 0.344 sec
 0-25-0.90 Impulse: 0.416 sec
 0-50-0.75 Impulse: 0.508 sec
 0-75-Full Impulse: 0.530 sec
 Warp Units: 0
 Warp Engines Output: N/A
 Optimum Speed: N/A
 Max. Safe Cruising: N/A
 Emergency Speed: N/A
 Max. Speed: N/A
 Destructive Speed: N/A
 Acceleration Power: N/A
 Acceleration Time:
 Warp 1 Warp 2: N/A
 Warp 3 Warp 3: N/A
 Warp 3 Warp 4: N/A
 Warp 4 Warp 5: N/A
 Warp 5 Warp 6: N/A
 Warp 6 Warp 7: N/A
 Warp 7 Warp 8: N/A
 Warp 8 Warp 9: N/A
 Warp 9 Warp 9.5: N/A
 Warp 9.5 Warp 9.75: N/A
 Warp 9.75 Warp 9.8: N/A
Duration (Years):
 Standard: 4 years
 Maximum: 20 Years
Std. Ship Complement: 7
Crew:
 Passengers: 3
 Emergency condition: -4
Endorsement Total: 0
 1 Person: 0
 2 Person: 0
 4 Person: 0
 Small Cargo: 0
 Medium Cargo: 0

Tractor Details: 2
 Tow Capacity: 7.8x10⁶ m
 Max Range: 9.35x10⁶ m
Cargo Specifications:
 Standard Cargo Units: 4
 Cargo Capacity: 0.08
Handicraft Specifications:
 Decking Ports: 0
 Climbing Devices: 0
Sensor Index Values:
 Planetary Survey: 1.002
 Stellar Survey: 0.986
 Short Range: 103
 Long Range: 0.968
 Navigation: 1.097
 Special: 0.986
Computers: 4
 Type: Memory-Magne 20 d
 Type: Memory-Magne 12 h
Shield Rating:
 Maximum Power: 4.82x10⁶ W
 Safe Rate: 82.0x10⁶ W
 Breakdown Rate: 1.72x10⁶ W
Shield Dimensions (Meters):
 Length: 5.42m
 Width: 12.45m
 Height: 5.85m
Weapons:
 Weapon Placement:
 Beam (Phasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward Banks: 0
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 0
 Upper Banks: 0
 Lower Banks: 0
 Beam (Heavy Phasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
 Missiles (Photon) Total: N/A
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

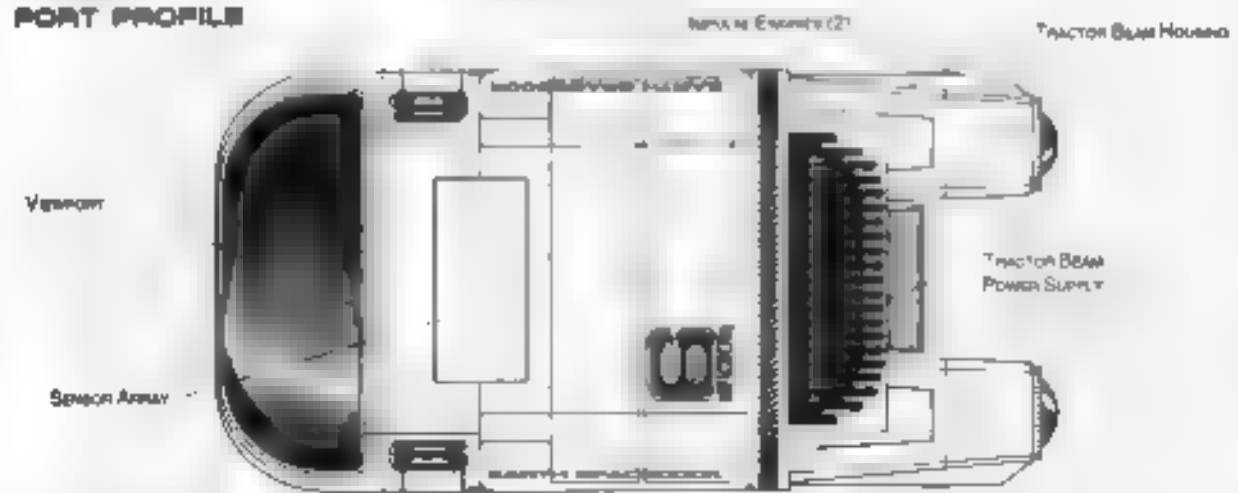
Craft Emblem



CLYDESDALE CLASS
SHUTUG

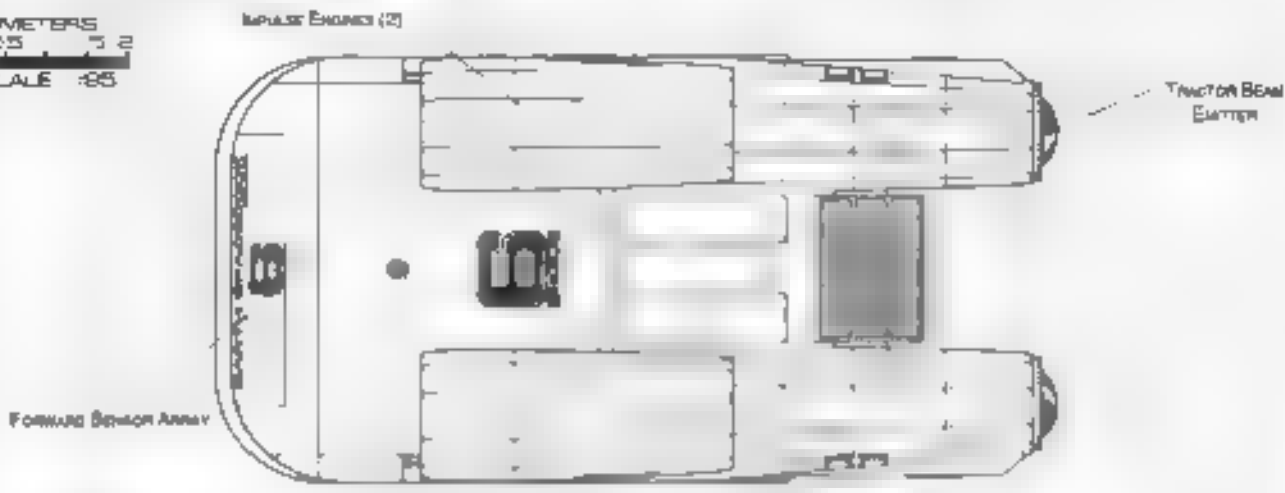


PORT PROFILE



TOP PROFILE

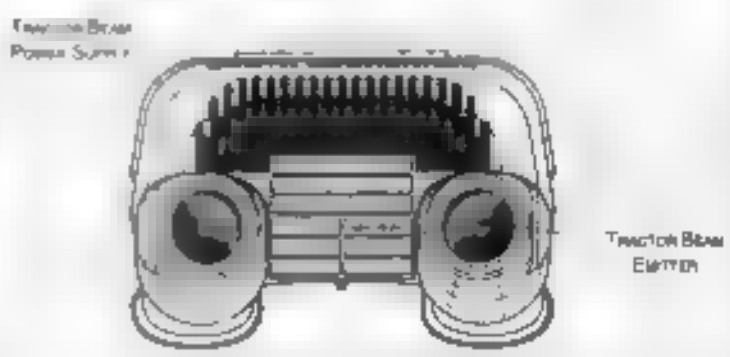
METERS
0 0.5 1 2
SCALE 1:85



BOTTOM PROFILE



FRONT PROFILE



REAR PROFILE

PASSENGER SHUTTLECRAFT



General Information

Specific Role: The Passenger Shuttlecraft was designed to be cathetically pleasing to most passengers while providing an extremely wide field of view and comfortable safety margin. To help passengers egress, an integral stair-way extends from the warp-nacelle whenever the hatch is open. Although this craft has a phaser bank, it is not designed for combat.

Physical Description: The pilot and optional co-pilot sit side by side underneath the large rakish canopy in the nose of the flat, slender shuttle craft. The passengers' seats can recline underneath a very large view port covering the rear half section. It has two main gangways located between the cockpit and the passenger compartment. Located in the bow of the shuttle is a (SM/DN4/17) navigational sensor array. Sub light propulsion is provided by the impulse drive system located on the rear of the craft. Warp power is provided by two (SW18/14IS) micro nacelles which are mounted on each side of the hull.

Class Emblem



Statistics

Classification: Passenger Shuttle

Cockpit: Single-seat

Class: As above

Type: Jaws 5

Model: UN-KX

Star Construction Company: PS-D1

Dimensions:

Overall Dimensions (Stationary)

Length: 3.19m

Width: 2.0m

Height: 3.7m

Displacement (Stationary)

Light: 2 mt

Standard: 14.5mt

Full Load: 8.21mt

Performance:

Impulse Units: Dual Unit 1P728-3-CC

Impulse Engines Output: 2x 0th W

Max Cruising: 1

Acceleration Rate:

0.00-0.25 Impulse 0.140 sec

0.25-0.50 Impulse 0.210 sec

0.50-0.75 Impulse 0.280 sec

0.75-Full Impulse 0.350 sec

Warp Units: 2 Micro Units (SW18/14IS)

Warp Engines Output: 2x 0th W

Optimum Speed: Warp 3

Max Safe Cruising: Warp 4

Emergency Speed: Warp 4.2

Max Speed: Warp 4.5

Destructive Speed: Warp 4.8

Acceleration Power: 30

Acceleration Times:

Warp 1: Warp 2: 2.879 sec

Warp 2: Warp 3: 3.436 sec

Warp 3: Warp 4: 6.208 sec

Warp 4: Warp 5: 03' sec

Warp 5: Warp 6: N/A

Warp 6: Warp 7: N/A

Warp 7: Warp 8: N/A

Warp 8: Warp 9: N/A

Warp 9: Warp 10: N/A

Warp 10: Warp 11: N/A

Armament (Keels):

Standard: 20 'ears

Maximum: 20 'ears

Std. Arms Complement:

Crew: 3

Passengers: 35

Emergency condition: +18

Transportation Total: 1

1 Person: 0

2 Person: 1

4 Person: 0

Small Cargo: 0

Medium Cargo: 0

Interior Details:

Yew Capacity: 7.82x10³mt

Max Range: 9.35x10³mt

Cargo Specifications:

Standard Cargo Unit: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Docking Ports: 0

Cloaking Devices: 0

Special Index Values:

Planetary Survey: 1001

Stellar Survey: 0.0102

Short Range: 0.03

Long Range: 1.028

Navigation: 0.030

Special: 1 1

Comments: 2

Type: Nonny-Magm 17 m

Type: Nonny-Magm 120

Shield Rating:

Shielded Power: 6.72x10³ W

Shield Rate: 2 5x 0th W

Breakdown Rate: 1.89x10³ W

Shield Dimensions (Stationary)

Length: 20.01m

Width: 8.58m

Height: 3.43m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 1 Mount, 1

Output: 5.0x10³ W 2.5x10³ W

Range: 2.5x 0th km

Rate of Fire: 20 ppm Cont

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Plasma) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Star Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks:

Missiles (Phasers) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

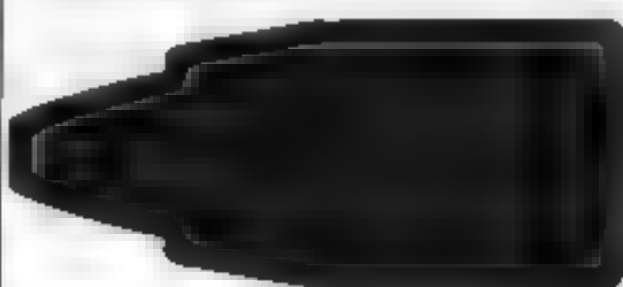
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Craft Silhouettes

Total Target Area: 188.16 m²



Top Silhouette

Area: 118.84 m²



Port Silhouette

Area: 48.81 m²



Front Silhouette

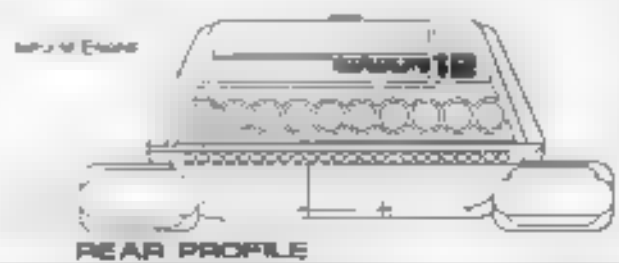
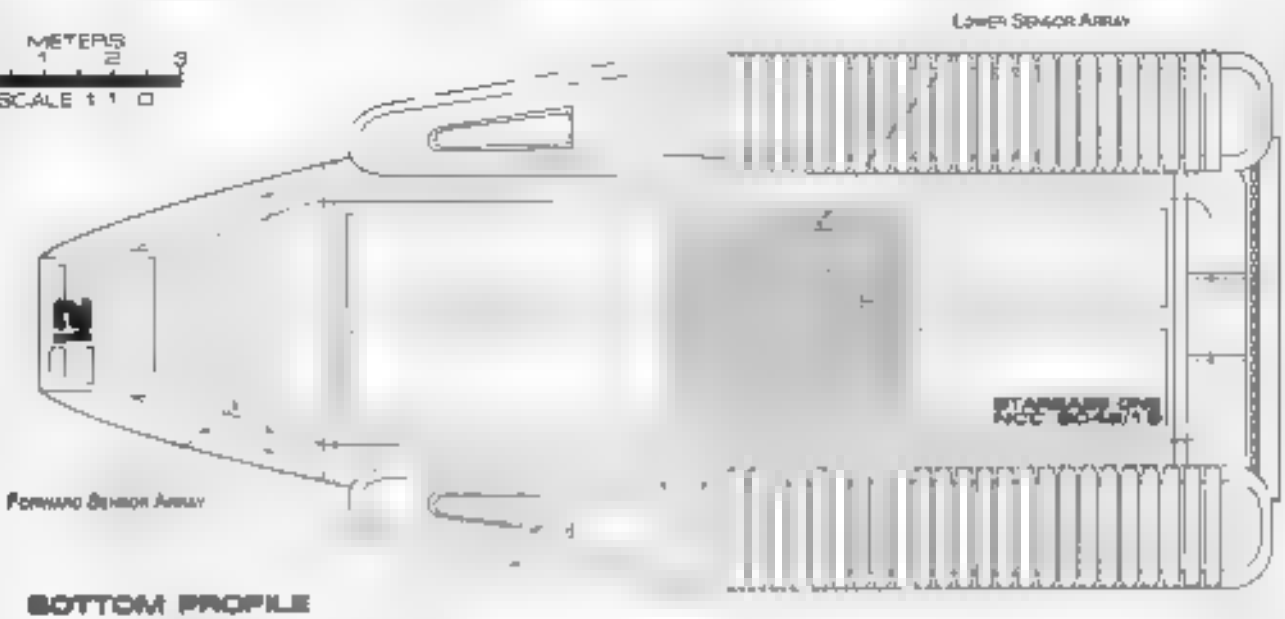
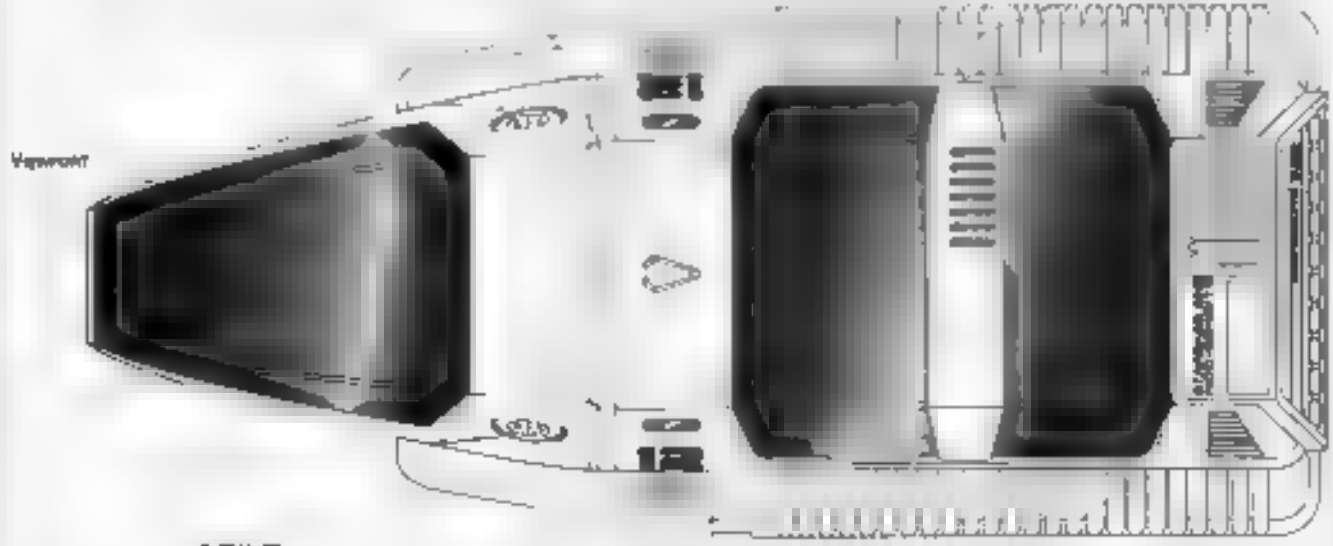
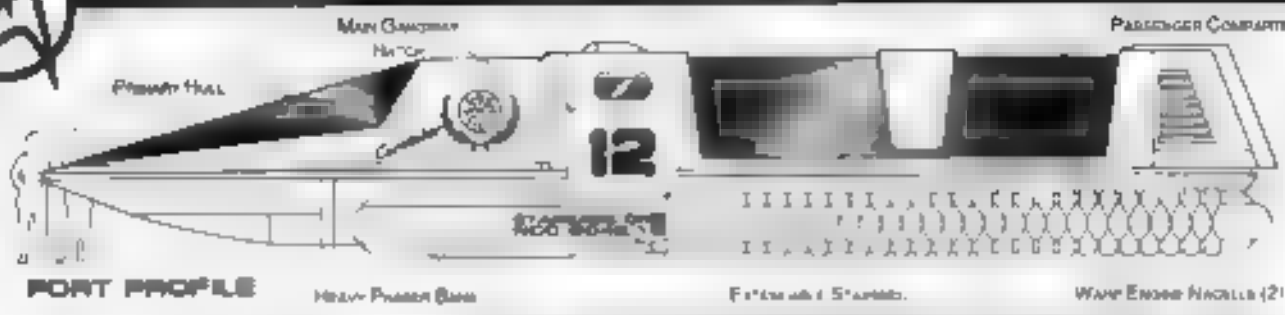
Area: 17.80 m²



PASSENGER SHUTTLECRAFT

CARETAKER CLASS

FEDERATION DRAFT



DOCKPORT CRAFT



General Information

General Description: The Dockport craft originally designed by the Tapa Design Institute of Vulcan, was adopted for use throughout the Federation. These craft are used by Federation officials andassadors and stationed or shifted for transportation within the Federation's borders. They are designed and built around the accepted Federation standard docking bay. These vehicles can cruise for several star warp minutes at a fairly moderate resupply during rendezvous. All Tapa Dockport craft are designed to use the same warp sled and most will use attachment systems.

Light Shuttle: The Chian's class light shuttle is generally used for transporting no more than six passengers at a time. Forward is the wedge shaped atmospheric shield, the sensor array is located on the starboard side. The port side has a hatch for docking. The mid lower air intake is provided by two 12" phasers and the sensor array is located on the underside. Protection is provided by two 12" phasers and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Pikaru Vulcan for light).

Cargo: The Fokar class cargo shuttle is used for transporting cargo and can carry optional passengers. Forward is the wedge shaped atmospheric shield, the sensor array is located on the starboard side. The port side has a hatch for docking. The mid lower air intake is provided by two 12" phasers and the sensor array is located on the underside. Protection is provided by two 12" phasers and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Pikaru Vulcan for light).

Standard: The Maranga class standard shuttle is the original Vulcan shuttle design. Two crew and eight passengers are aboard in compartments. Forward is the wedge shaped atmospheric shield protecting the port side. The starboard side has a hatch for docking. The mid lower air intake is provided by two 12" phasers and the sensor array is located on the underside. Protection is provided by two 12" phasers and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Pikaru Vulcan for light).

Heavy Shuttle: The Aras class heavy shuttle has a standard crew of four and up to sixteen passengers. Forward is the wedge shaped atmospheric shield protecting the port side. The starboard side has a hatch for docking. The mid lower air intake is provided by two 12" phasers and the sensor array is located on the underside. Protection is provided by two 12" phasers and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Pikaru Vulcan for light).

Warp Sled: The Tai Guas Warp Sled adds extended warp capability to the Tapa Dockport craft. The sled can cruise at warp 4 with a maximum speed of warp 4.7. The sled is designed to attach to the Dockport craft with two 12" DP-4 (SW-22) impulse/micro-warp nacelles along each side. The sled is equipped with a (SME-22-2EP) sensor array (Tai Vulcan for light).

Aquatic Encasement: This device seals the sensitive components underneath the Tapa Dockport craft and provides buoyancy and propulsion at depths of 100 meters or less.

Communication Module: Provides high gain reception and high power transmission for deep space communications.

Fuel Module: Adds fuel storage to extend power reserves and range of Dockport craft.

Impulse Module: Provides additional impulse power to Dockport craft.

Manipulation Module: Adds manipulator arms to the front of Dockport craft.

Micro Warp Nacelles: Adds light warp capabilities to the Tapa Dockport craft.

Phaser Module: Adds medium phaser capability for basic defense and cutting.

Photon Torpedo Module: Adds photon missile capability to the shuttle.

Research Module: Adds research gathering and wide band diagnostic tools.

Sensor Array Module: Adds focused specific hand probing capability.

Survey Module: Used by small science teams for stellar body surveys.

Tractor Beam Module: Adds tractor beam towing and manipulation capability to the shuttle.

Tow Hitch Module: Adds physical towing system to unusual objects.

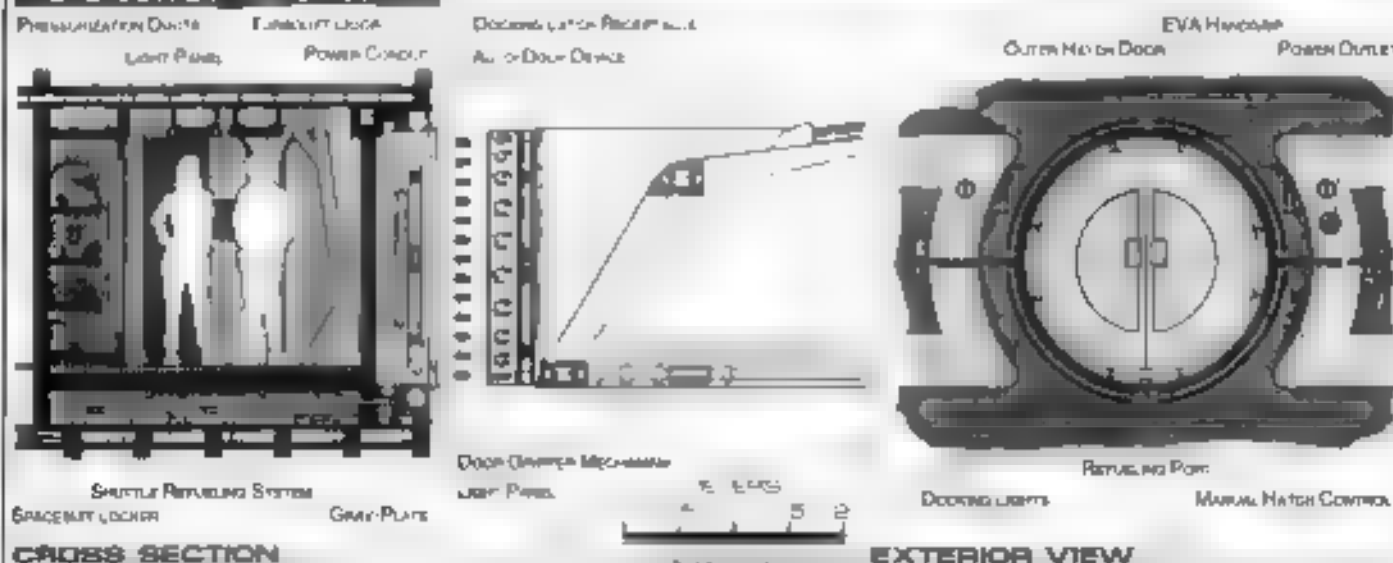
Medical Pod: Provides medical facilities for Dockport craft comprised of 2 doctors, 14 emergency bunks and light surgical facilities.

Passenger Pod: Adds independently powered accommodations for 20 passengers.

Cargo Pod: Doubles the volume of cargo space to any Dockport craft.

Light Cargo Pod: Adds a light cargo pod to any Dockport craft.

Docking Port



DOCKPORT CRAFT

Light Shuttle



ACCESS HATCH

Docking T-UP

Docking Ring



PORT PROFILE

REACTION
CHAMBER
THRUSTERVISUAL DOCKING
BEACON

TOP PROFILE

Left Shuttle
Silo & Fuel/Water
COLLECTORSATMOSPHERIC
SHIELD

FRONT PROFILE

Docking
Ring

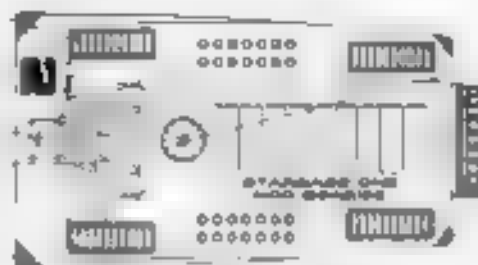
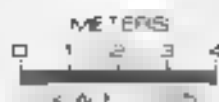
DOCKING LIGHTS



REAR PROFILE

EXTENDABLE
LANDING PADS

Plasma

Sensor
Array

BOTTOM PROFILE

LOWER BRS HATCH

REAR TWIN
CONTROL
THRUSTER

Class Emblem



Craft Silhouettes

Total Target Area 60.78 m²Top Silhouette
Area 48.08 m²Front Silhouette
Area 4.72 m²Port Silhouette
Area 10.00 m²



DOCKPORT CRAFT

Cargo Shuttle

FIKARU CLASS

ACCESS HATCH

Docking Tube

Docking Port

REACTION
CONTROLS
THRUSTER

PORT PROFILE

UPPER PHASER
BANK

Upper Cannon
16 x 11

VISUAL LOCATION
DECK

Upper Surface
Space Heavy
Cannon

ATMOSPHERE
SHIELD

TOP PROFILE

Docking
Rail

Docking Limits

FRONT PROFILE

REAR PROFILE

EXTENDED
LANDING PAD

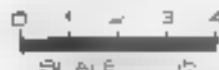
SENSOR
ARRAY

PHASERS

STARBASE ONE
NOO-604513

LOWER HATCH

METERS



BOTTOM PROFILE

Class Emblem



Craft Silhouettes

Total Target Area 224.24 m²



Top Silhouette
Area 125.15 m²



Front Silhouette
Area 30.89 m²

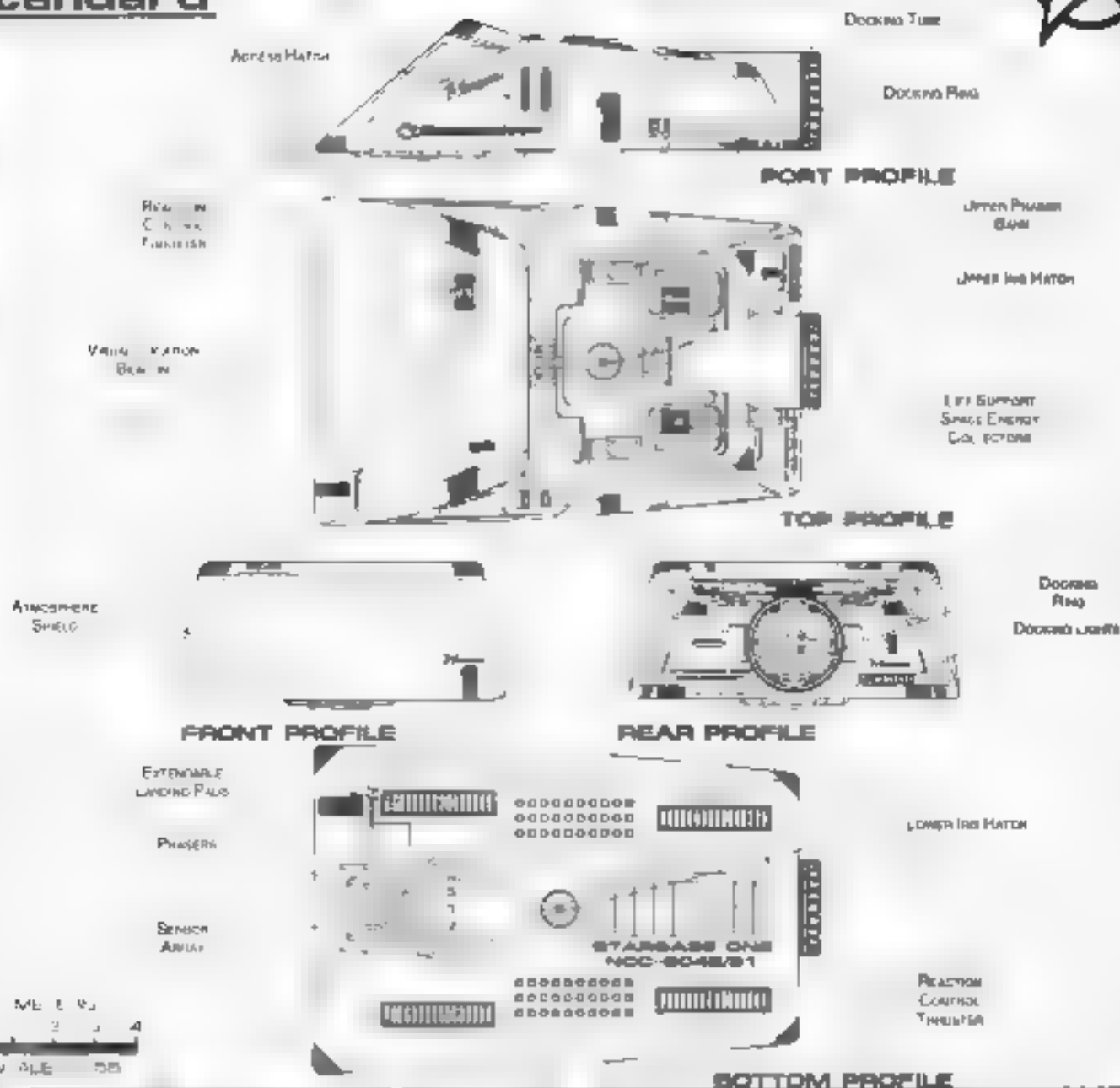


Port Silhouette
Area 68.09 m²

REGISTRATION CODE: 1

DOCKPORT CRAFT

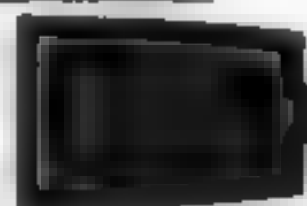
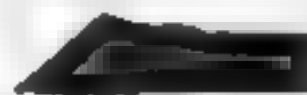
Standard



Class Emblem



Craft Silhouettes

Total Target Area: 1,421.00 m²Top Silhouette
Area: 25.00 m²Front Silhouette
Area: 25.00 m²Port Silhouette
Area: 25.00 m²



DOCKPORT CRAFT

GENERAL INFORMATION

DockPort Attachment Compatibility Chart

	Standard Shuttle	Light Shuttle	Cargo Shuttle	Heavy Shuttle	Warp Ship	Aquatic Encasement	Communication Module	Fuel Module	Impulse Module	Manipulation Module	Micro Warp Module	Phaser Module	Photon Torpedo	Research Module	Senior Army Module	Survey Module	Tractor Beam Module	Tow Hitch Module	Medical Pod	Passenger Pod	Cargo Pod	Light Cargo Pod
Standard Shuttle																						
Light Shuttle																						
Cargo Shuttle																						
Heavy Shuttle																						
Warp Ship																						
Aquatic Encasement																						
Communication Module																						
Fuel Module																						
Impulse Module																						
Manipulation Module																						
Micro Warp Module																						
Phaser Module																						
Photon Torpedo																						
Research Module																						
Senior Army Module																						
Survey Module																						
Tractor Beam Module																						
Tow Hitch Module																						
Medical Pod																						
Passenger Pod																						
Cargo Pod																						
Light Cargo Pod																						

Aquatic Encasement

Communication Module

Fuel Module

Impulse Module

Manipulation Module

Micro Warp Module

Phaser Module

Photon Torp

Research Module

Senior Army Module

Survey Module

Tractor Beam Module

Tow Hitch Module

Medical Pod

Passenger Pod

Cargo Pod

Light Cargo Pod

Composite Example

STARFLEET REFERENCE MANUAL

DOCKPORT CRAFT

Heavy Shuttle

TELUSIN 775 SENSOR

DOCKING TUBE



ACCESS HATCH

DOCKING RAMP

REACTION
CONTROL
THRUSTERS

PORT PROFILE

UPPER PHASER
BLANKVISUAL LOCATION
BEACON

JUNCTION HATCH

LINE BURNOUT
SPACE ENERGY
COLLECTOR

TOP PROFILE

ATMOSPHERE
SHIELDDOCKING
RAMP

DOCKING LIGHTS

FRONT PROFILE

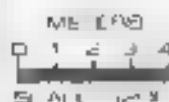
REAR PROFILE

EXTENSIBLE
LANDING PAD
PHASERSATTACHMENT
PLATE

LOWER HULL HATCH

SENSOR
ARRAYSTANDARD ONE
HULL SENSORREACTION
CONTROL
THRUSTERS

BOTTOM PROFILE



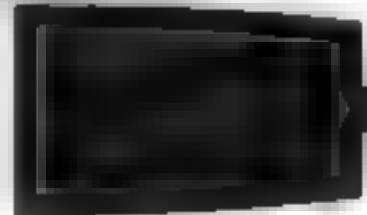
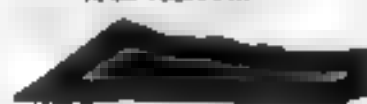
Class Emblem



Heavy Shuttle

Craft Silhouettes

Total Target Area 690.18 m²

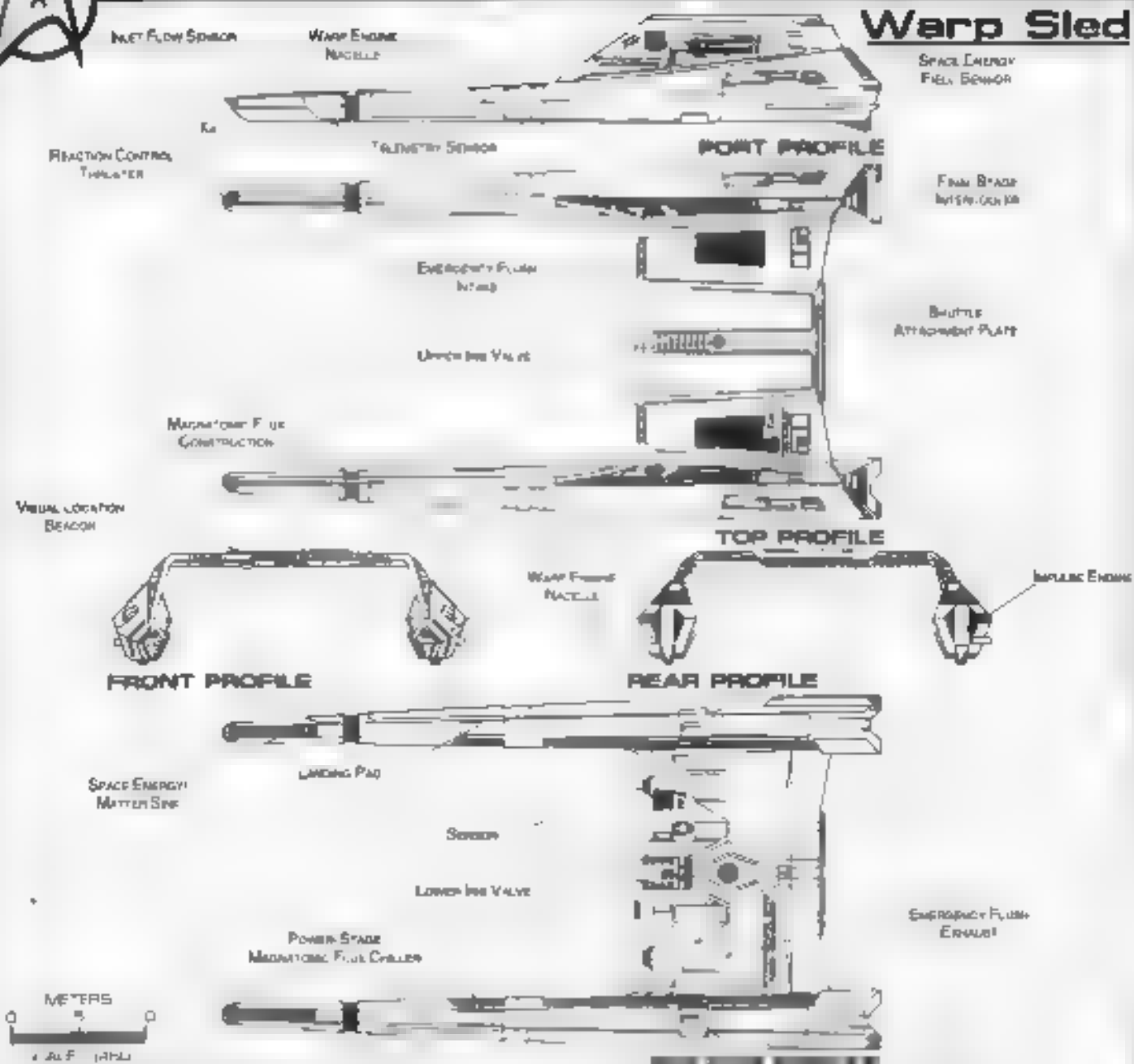
Top Silhouette
Area 188.44 m²Front Silhouette
Area 47.64 m²Port Silhouette
Area 33.94 m²



DOCKPORT CRAFT

Warp Sled

TAI CLASS

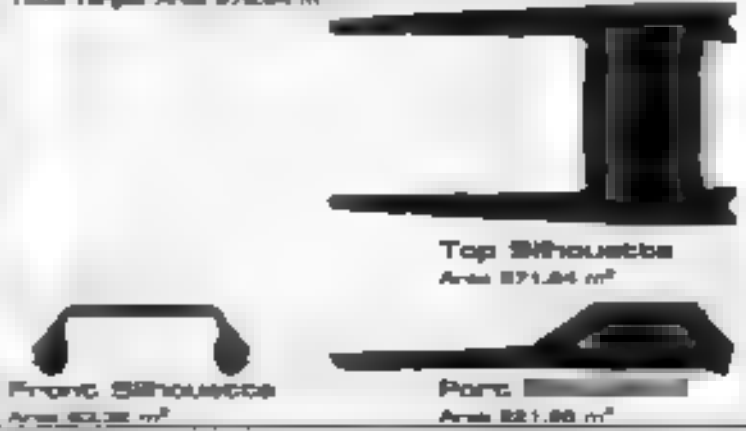


Class Emblem



Craft Silhouettes

Total Target Area: 871.84 m²

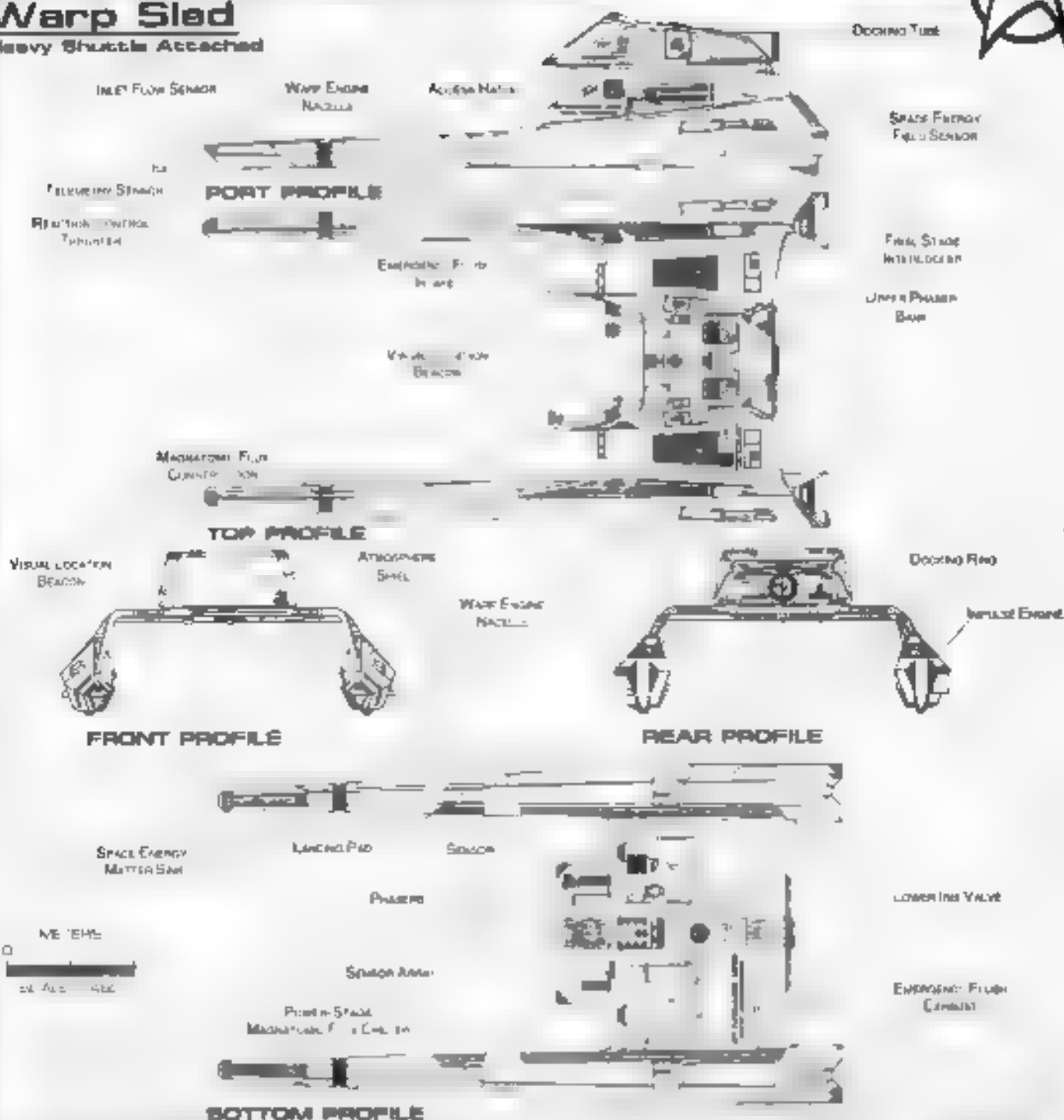


FEDERATION CRAFT

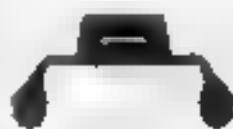
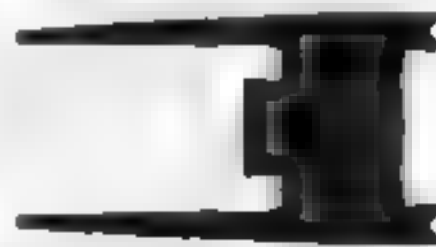
DOCKPORT CRAFT

Warp Sled

Heavy Shuttle Attached



Craft Silhouettes

Total Target Area 1088.87 m²Front Silhouette
Area 11.18 m²Port Silhouette
Area 279.78 m²Top Silhouette
Area 821.88 m²

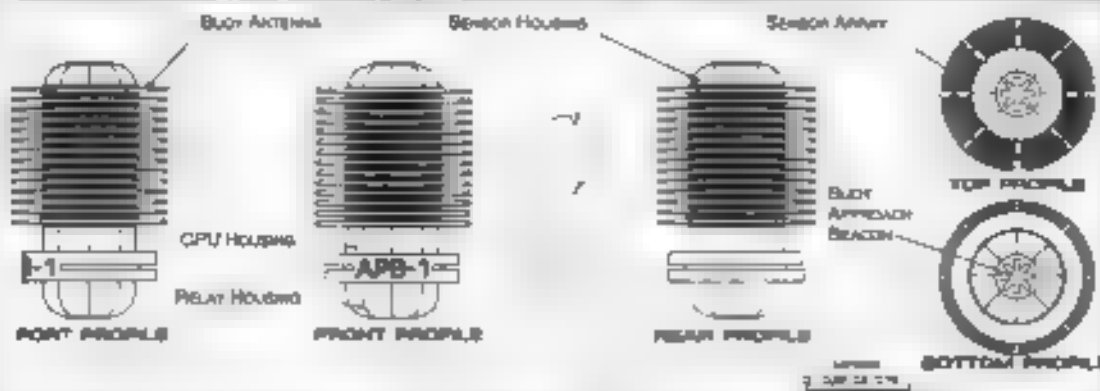


Buoys

Many types of buoys are required for the safe navigation and expansion of Federation borders. Most of the buoys are strictly general purpose navigational aids; however, there are several specific mission units.

Approach Position Beacon

APB-1/OC

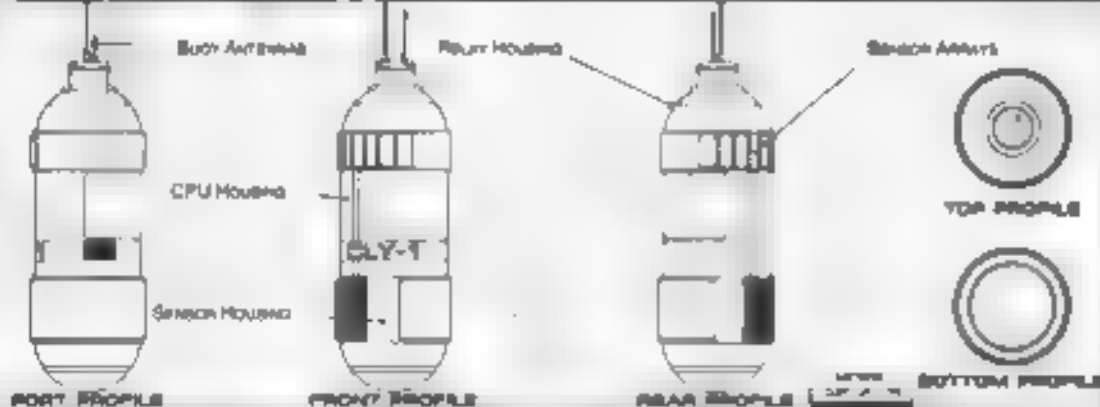


Classification:
Approach Position Beacon
Model: APB-1
Manufacturer:
Overall Dimensions (Diameter)
Length: 15m
Width: 45m
Height: 5m
Deployment Method: Standard GCU 75 kg
Performance:
Range: 600-1013 km
Temperature: -20 to 60°C
Key Features:
- Self-contained
- Self-deployable
- Self-repairing
- Self-diagnosing
- Self-communicating
- Self-activating
- Self-terminating

General Description: These buoys, referred to as APBs, are the placed at the outskirts of solar systems and extremely cluttered areas for navigational reference purposes. They also provide precise guidance information for navigating hazardous debris fields and complex planetary systems. A Galactic time base is included in the standard configuration.

Colony Buoy

CLY-1/POB



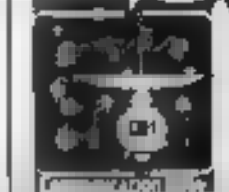
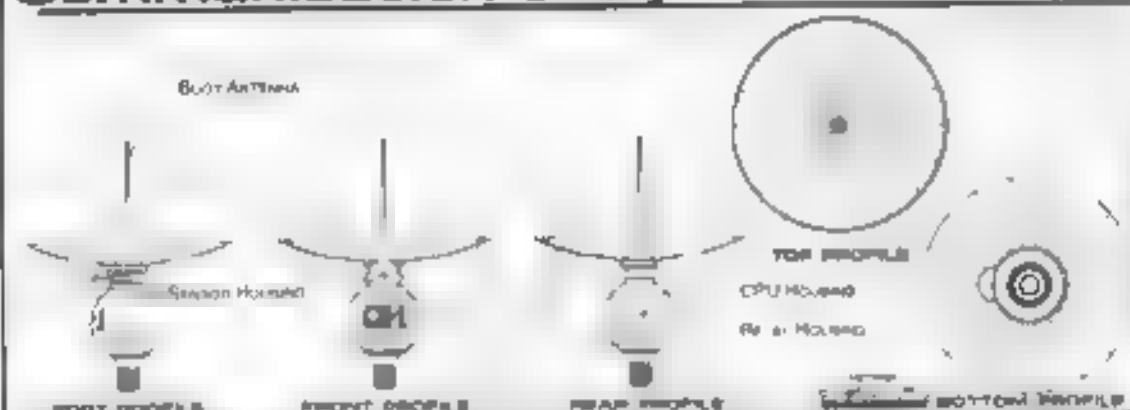
Classification:
Colony Buoy
Model: CLY-1
Manufacturer:
Overall Dimensions (Diameter)
Length: 15m
Width: 45m
Height: 5m
Deployment Method: Standard 147 kg
Performance:
Range: 600-1013 km
Temperature: -20 to 60°C
Key Features:
- Self-contained
- Self-deployable
- Self-repairing
- Self-diagnosing
- Self-communicating
- Self-activating
- Self-terminating

General Description: The Colony Buoy is usually placed as a relay over a colony planet. This buoy provides subspace communications, orbital surveillance and general sensor sweeps of the colony planet for survey related work.



Communication Buoy

CB-1, KKR

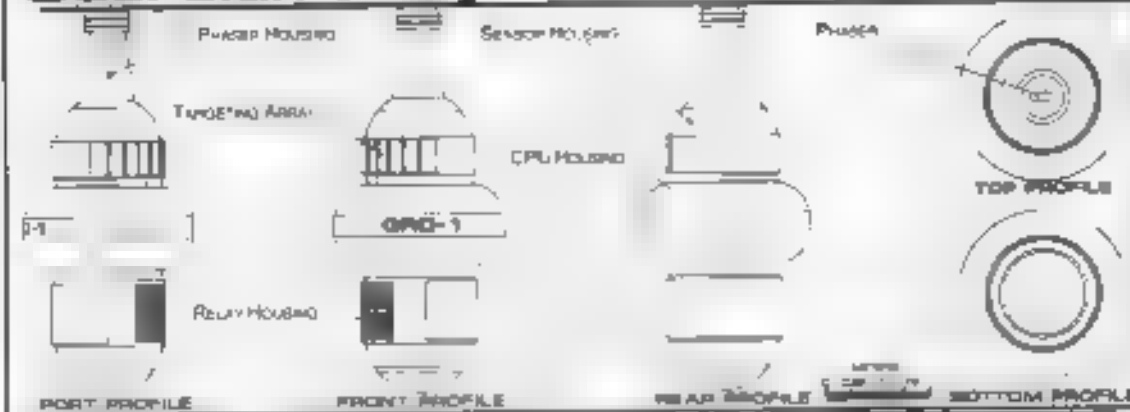


Classification: CB-1, KKR
General Description: This buoy provides a standard ship-to-ship communication link for peripheral work and deep space facilities. A Galactic time base is included in the standard configuration.
Performance:
 Length: 10m
 Width: 1m
 Height: 1m
 Displacement: 100 kg
Features:
 Range: 1000 km
 Channels: 10
 Buoy Features: 10
 Buoy Features: 10

General Description: This buoy provides a standard ship-to-ship communication link for peripheral work and deep space facilities. A Galactic time base is included in the standard configuration.

Guardian Buoy

GB-1, LVM

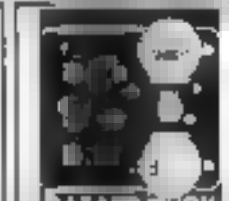
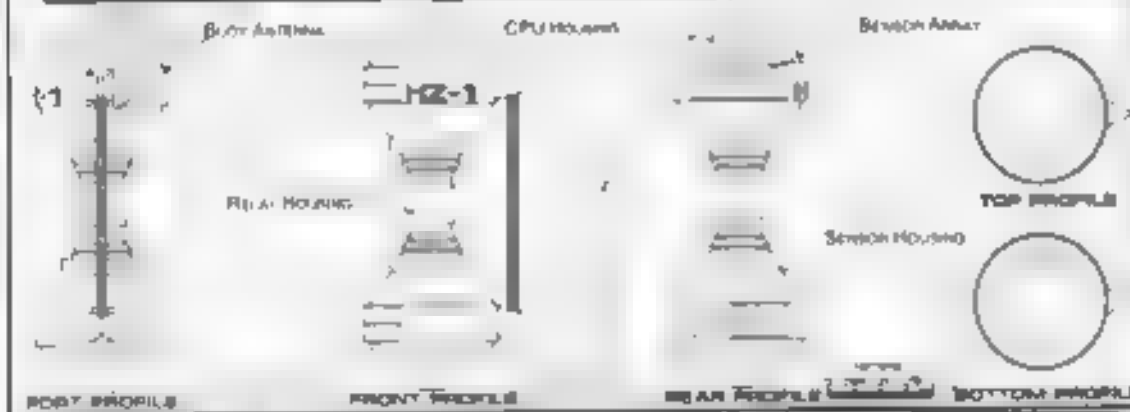


Classification: GB-1, LVM
General Description: This buoy provides a standard ship-to-ship communication link for peripheral work and deep space facilities. A Galactic time base is included in the standard configuration.
Performance:
 Length: 10m
 Width: 1m
 Height: 1m
 Displacement: 100 kg
Features:
 Range: 1000 km
 Channels: 10
 Buoy Features: 10
 Buoy Features: 10

General Description: This buoy provides a standard ship-to-ship communication link for peripheral work and deep space facilities. A Galactic time base is included in the standard configuration.

Hazard Buoy

HZ-1, VEC



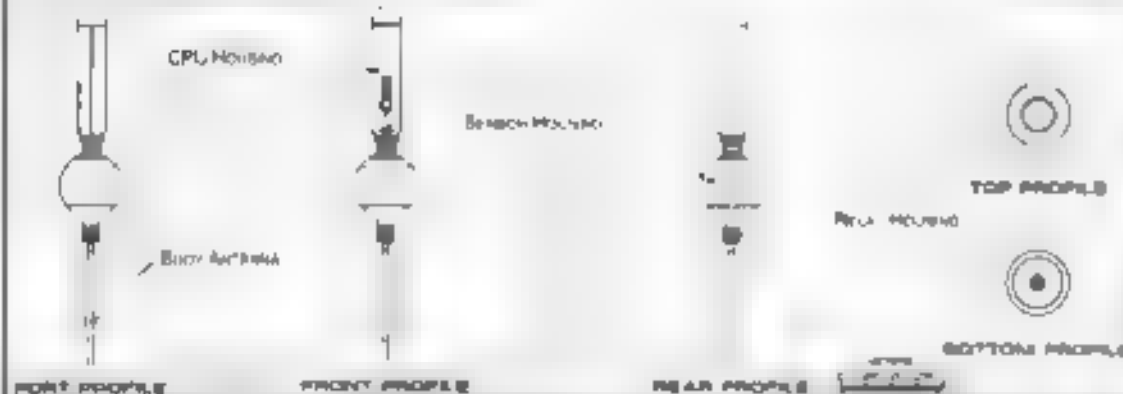
Classification: HZ-1, VEC
General Description: This buoy provides a standard ship-to-ship communication link for peripheral work and deep space facilities. A Galactic time base is included in the standard configuration.
Performance:
 Length: 10m
 Width: 1m
 Height: 1m
 Displacement: 100 kg
Features:
 Range: 1000 km
 Channels: 10
 Buoy Features: 10
 Buoy Features: 10

General Description: This buoy provides a standard ship-to-ship communication link for peripheral work and deep space facilities. A Galactic time base is included in the standard configuration.

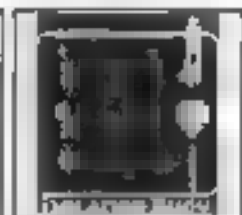


Isolation Buoy

ISO-1, X15



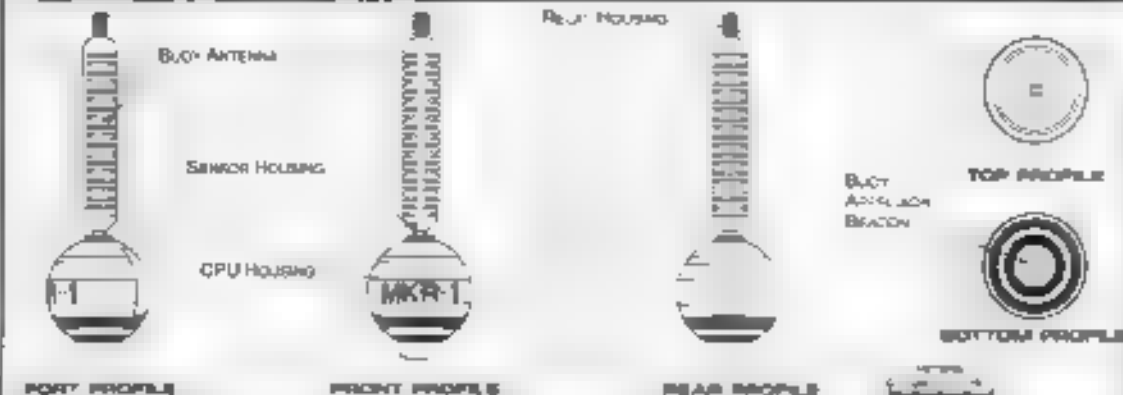
General Description: The ISO-1 Buoy is a spherical buoy with a diameter of 1.5 meters. It is used to mark a specific location in space. The buoy is made of a lightweight material and is designed to be easily deployed and retrieved. It is used to mark a specific location in space, such as a point of interest or a hazard. The buoy is used to mark a specific location in space, such as a point of interest or a hazard.



Classification: ISO-1
Model: ISO-1
Dimensions: 1.5m (diameter)
Weight: 100kg
Material: Aluminum
Manufacturer: Starfleet Industries
Year: 2300

Marker Buoy

MCR-1/ DWE



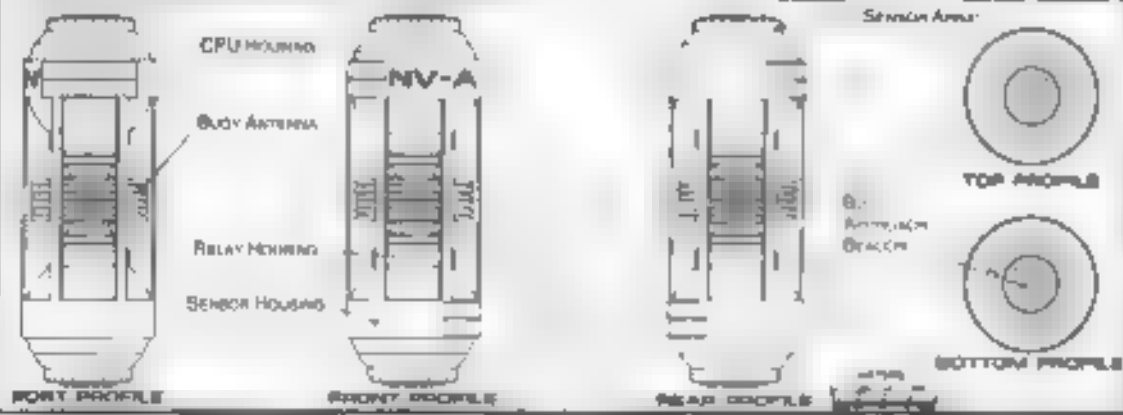
General Description: The MCR-1 Buoy is a spherical buoy with a diameter of 1.5 meters. It is used to mark a specific location in space. The buoy is made of a lightweight material and is designed to be easily deployed and retrieved. It is used to mark a specific location in space, such as a point of interest or a hazard. The buoy is used to mark a specific location in space, such as a point of interest or a hazard.



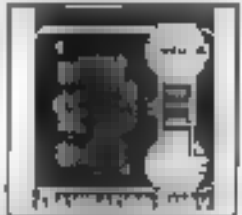
Classification: MCR-1
Model: MCR-1
Dimensions: 1.5m (diameter)
Weight: 100kg
Material: Aluminum
Manufacturer: Starfleet Industries
Year: 2300

Navigation Buoy

NV-A, BBC



General Description: The NV-A Buoy is a spherical buoy with a diameter of 1.5 meters. It is used to mark a specific location in space. The buoy is made of a lightweight material and is designed to be easily deployed and retrieved. It is used to mark a specific location in space, such as a point of interest or a hazard. The buoy is used to mark a specific location in space, such as a point of interest or a hazard.

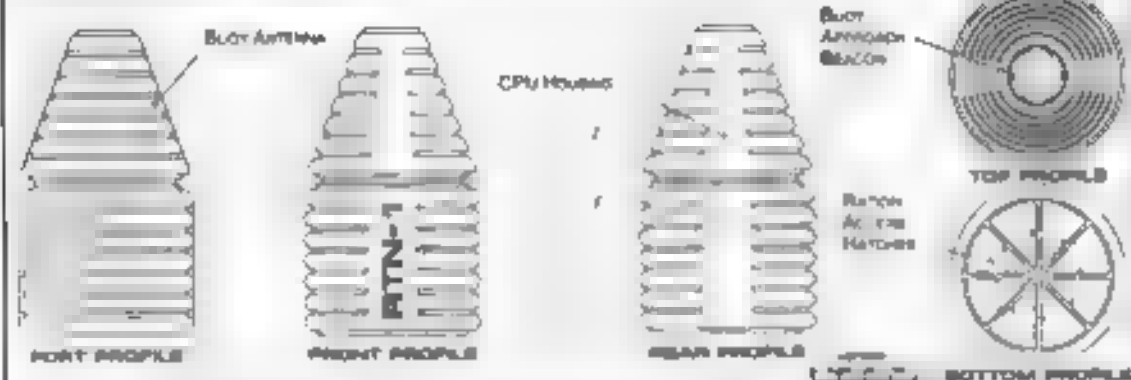


Classification: NV-A
Model: NV-A
Dimensions: 1.5m (diameter)
Weight: 100kg
Material: Aluminum
Manufacturer: Starfleet Industries
Year: 2300

BUOYS



Ration Buoy



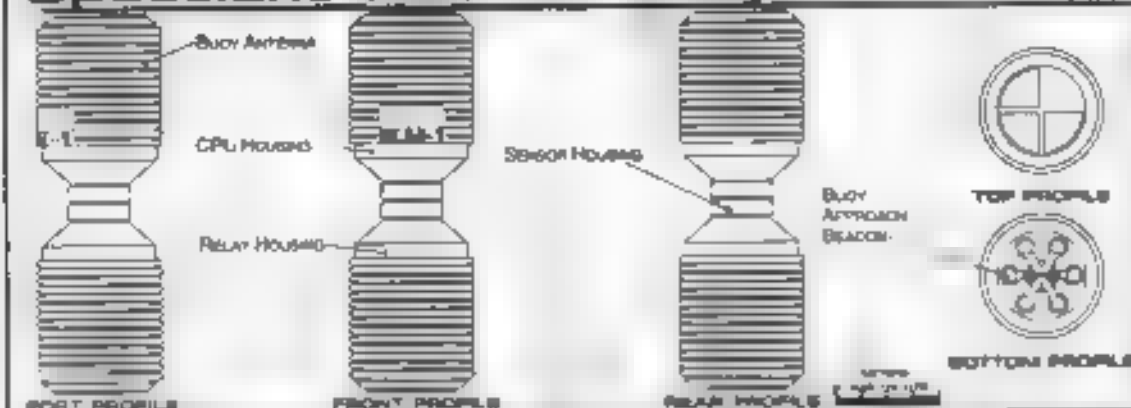
General Description: Ration buoys are placed in strategic areas where survivors will be able to find a vessel having been damaged or destroyed with little or no warning. Survivors in life boats, escape pods and shuttles will be able to find food, water and rescue beacons in these buoys.



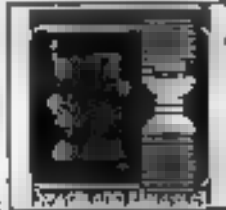
Classification:
Type: Ration
Model:
RTN-1
Overall Dimensions (Standard)
Length: 40m
Width: 40m
Height: 40m
Displacement:
Standard: 700 kg
Performance:
Range: 4000 km
Submarine:
Type: Ration
Manufacturer: Ration
Manufacturer: Ration
Manufacturer: Ration

Spacelane Marker Buoy

SLM-1, RTY



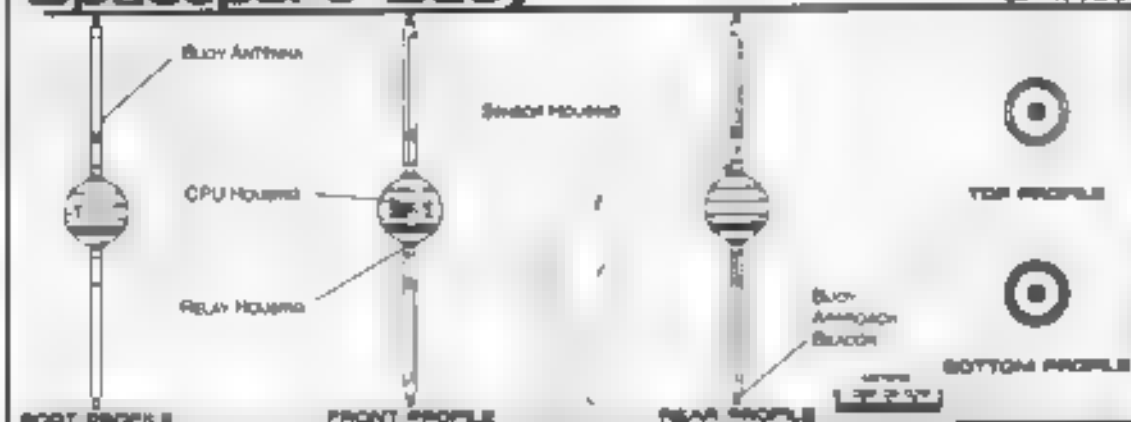
General Description: These buoys are placed in strategic areas of space lanes. Spacelane Marker Buoys are placed every 5 light years in standard usage and every million kilometers for particularly difficult to navigate areas. A Galactic time base is included in the standard configuration.



Classification:
Type: Spacelane Marker Buoy
Model:
SLM-1
Overall Dimensions (Standard)
Length: 10m
Width: 10m
Height: 10m
Displacement:
Standard: 100 kg
Performance:
Range: 1000 km
Submarine:
Type: Spacelane
Manufacturer: Spacelane
Manufacturer: Spacelane
Manufacturer: Spacelane

Spaceport Buoy

SP-1, AAA



General Description: These buoys are used in strategic areas of space ports to provide "roads" for support craft such as cargo shuttles and precise guidance for starships to the space docks. They also broadcast instructions for proper docking procedures and a list of services available at each dock.



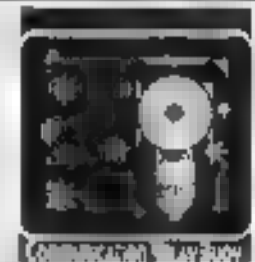
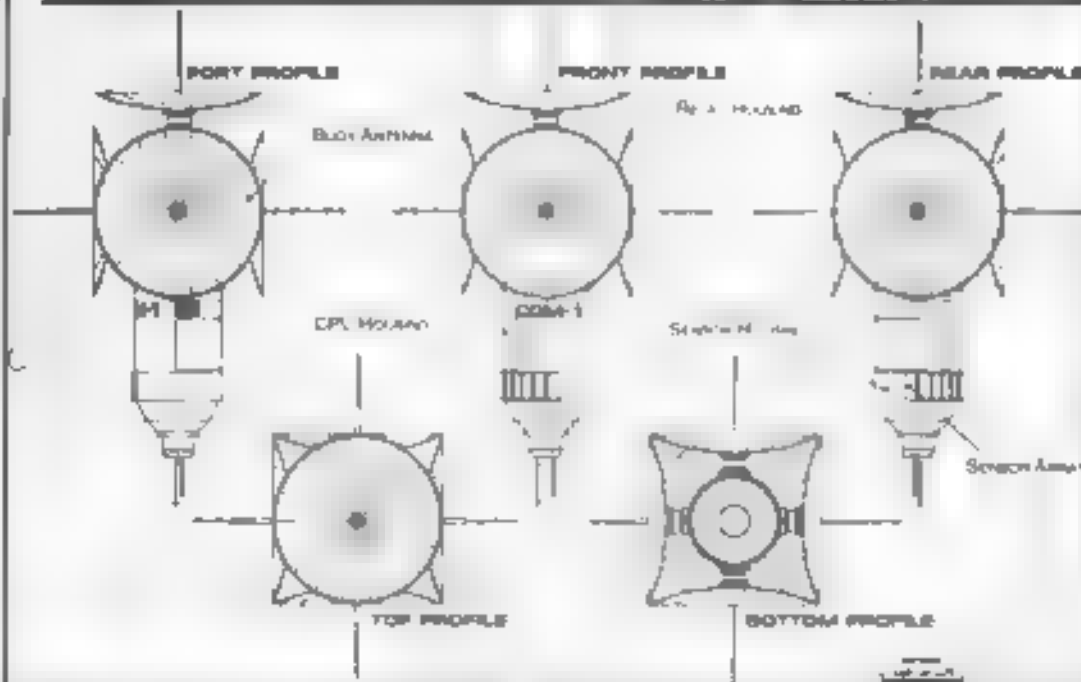
Classification:
Type: Spaceport Buoy
Model:
SP-1
Overall Dimensions (Standard)
Length: 10m
Width: 10m
Height: 10m
Displacement:
Standard: 100 kg
Performance:
Range: 1000 km
Submarine:
Type: Spaceport
Manufacturer: Spaceport
Manufacturer: Spaceport
Manufacturer: Spaceport



BUOYS

GENERAL INFORMATION

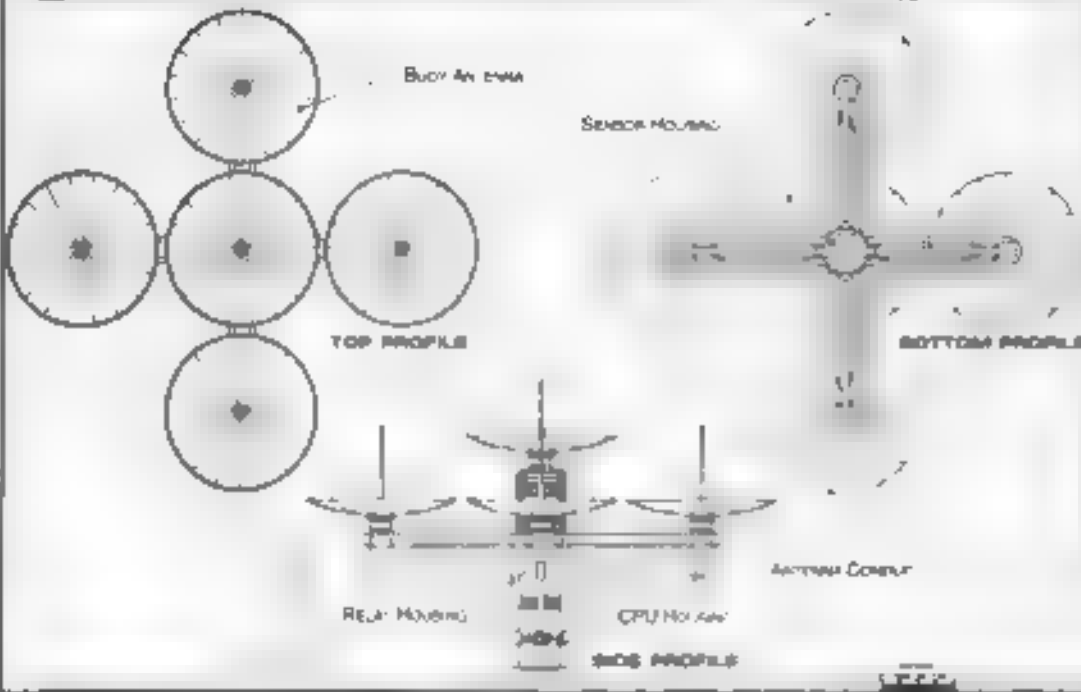
Communication Relay Buoy COM-1, 458



Classification:
Type: Communication Buoy
Model: COM-1
Length: 458m
Width: 100m
Height: 100m
Displacement: 100,000 tons
Performance:
Range: 100,000 km
Throughput: 100,000 km
Buoy Features:
The buoy features a central CPU Module, a Relay Module, and a Sensor Array. The buoy is designed to provide long-range communication for the Federation.

General Description: The Communication Relay Buoy COM-1, 458 is a large, cylindrical buoy that orbits the Federation worlds for heavy, long-range communication. These buoys are not always placed near space lanes; instead, they are placed at line of sight intersections between several worlds or starbases. These units can be used back to back or near other relay buoys such as the Communication Buoy or the Heavy Communication Buoy to form relay networks.

Heavy Communication Buoy HCB-1/ETG



Classification:
Type: Heavy Communication Buoy
Model: HCB-1/ETG
Length: 100m
Width: 100m
Height: 100m
Displacement: 100,000 tons
Performance:
Range: 100,000 km
Throughput: 100,000 km
Buoy Features:
The buoy features a central CPU Module, a Relay Module, and a Sensor Array. The buoy is designed to provide long-range communication for the Federation.

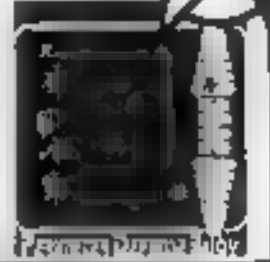
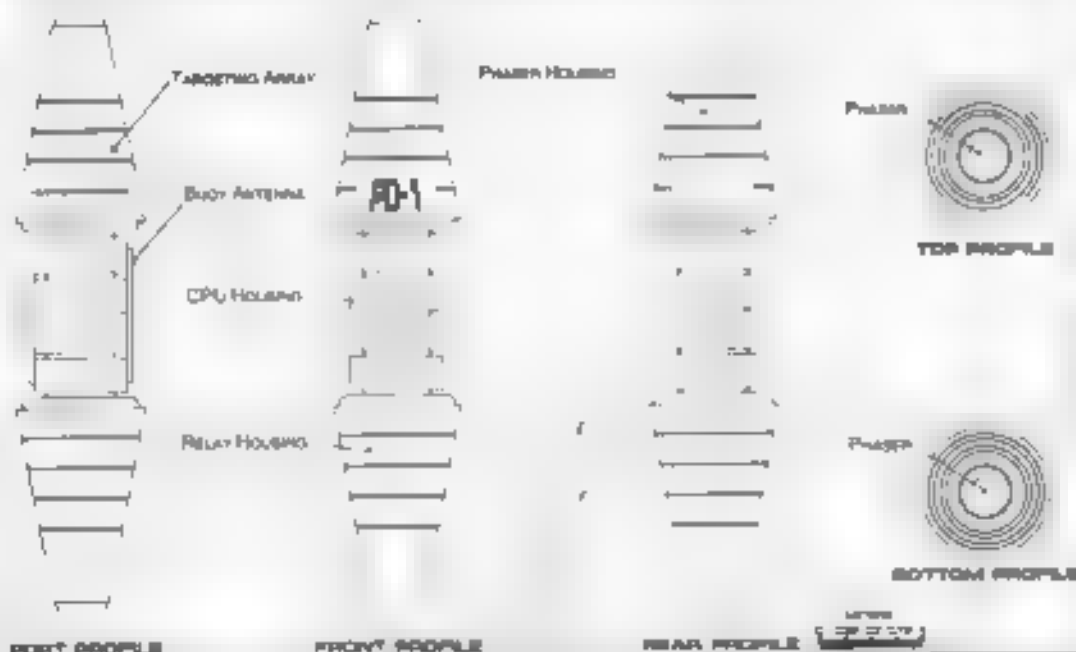
General Description: The Heavy Communication Buoy HCB-1/ETG is a large, cylindrical buoy that orbits a planet or a solar system. This buoy provides over 500,000 channels of long-range, sub-space communications for peripheral worlds and deep-space facilities. A Galactic data-base is included in the standard configuration.

FEDERATION BUOY



Perimeter Defense Buoy

PD-1, 340T



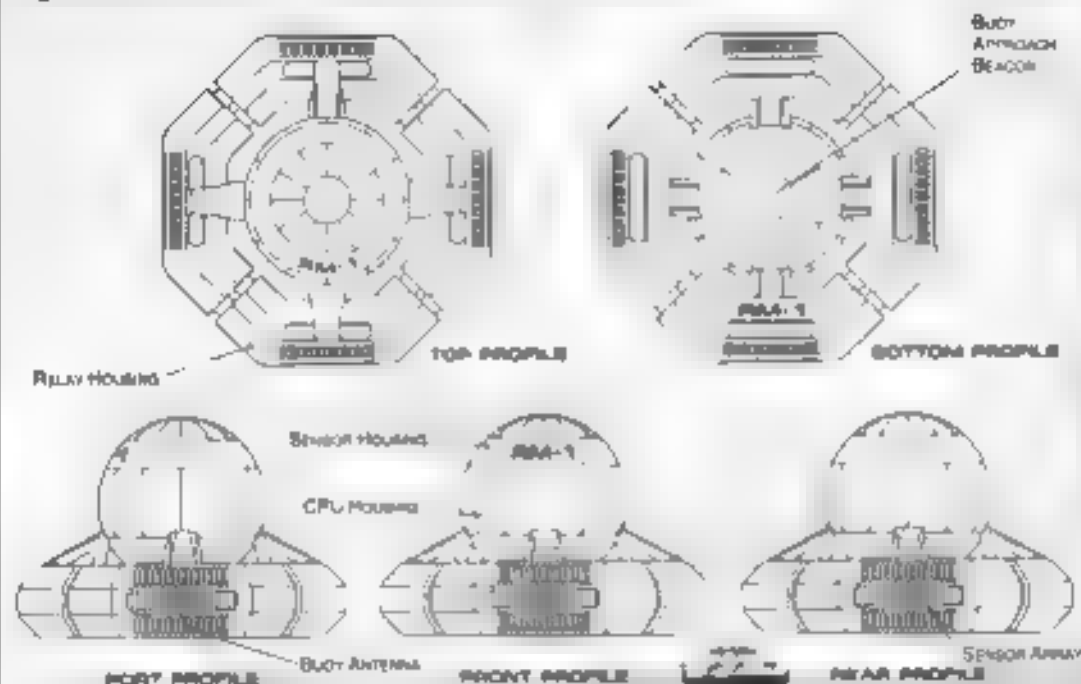
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[illegible]

General Description: Perimeter Defense Buoys provide a point home submarine net. Generally used to keep small starships from penetrating sensitive areas it has 2 standard ship plasers capable of firing every 3 seconds at full power for 7 minutes. In addition to E.C.M. and sub space field detection capabilities this buoy can be remote controlled from a planet's surface or even a distant space station. This buoy can damage or destroy small starships and several Perimeter Defense Buoys could provide a substantial defense with help an army. When constructed the buoy will enclose and, a 3000 cubic meter observation radius.

Regional Marker Buoy

Page 1, Page 2



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[illegible]

General Description: Regulus Markets help define explored areas, space by providing navigational information and references for each sector. Any Federation vessel can access the storage banks in these buoys and send or receive navigational updates, information on planetary cultures and a record of previous contacts. A solaris time base is included in the standard configuration.



NAV-1. DUTY



It is common to find that the same

[illegible]

System Traffic Buoy

67 31 TOYB

**Feedback**[illegible]

SRM3 03:01:01:07

STARSHIPS

General Information

The Federation is responsible for the maintenance of the Federation's fleet of starships and the down space. Although the Federation's fleet is vast, it has been reduced to a small portion of its former glory in the last few years. The Federation's fleet is divided into several categories. These include: Scouts, Carriers, Cruisers, Destroyers, Frigates, and Warships. Each category has its own set of specifications and capabilities.

Scouts have a two-fold role in Federation policy. First, they are used for reconnaissance. They are equipped with advanced sensors and are able to detect the presence of other ships. Second, they are used for exploration. Scouts are able to travel to distant parts of the galaxy and report back to the Federation. The scouts' capabilities are essential for the Federation's exploration of space.

Destroyers are primarily designed for defense, but also support many other types of operations. They are equipped with heavy weapons and are able to destroy other ships. Destroyers are also used for reconnaissance and exploration. They are able to travel to distant parts of the galaxy and report back to the Federation. Destroyers are essential for the Federation's defense and exploration.

Cruisers are general purpose vessels. Cruisers are used for a variety of operations, including reconnaissance, exploration, and defense. They are equipped with a variety of weapons and sensors. Cruisers are essential for the Federation's general operations.

Frigates are used for transport, troops, and fighters. Frigates are able to carry a large number of troops and fighters. They are also used for reconnaissance and exploration. Frigates are essential for the Federation's transport and reconnaissance operations.

Transport Tugs are used for transport. Transport tugs are able to carry a large number of troops and cargo. They are also used for reconnaissance and exploration. Transport tugs are essential for the Federation's transport operations.

Research Vessels are designed for a wide range of exploration and research applications. They are equipped with advanced sensors and are able to detect the presence of other ships. Research vessels are essential for the Federation's exploration and research operations.

Medical Ships are designed as mobile hospitals. They are able to provide medical support to other ships. Medical ships are essential for the Federation's medical operations.

Warships are designed for defense of the Federation. They are equipped with heavy weapons and are able to destroy other ships. Warships are essential for the Federation's defense operations.

Carriers are designed for the support, transportation, launching and recovery of other aircraft fighters and other small craft. Both military and non-military missions are within the scope of carrier operations.

Freighters are designed for the transportation of materials and goods throughout the Federation.

Tugs are designed for the movement of large objects through the use of massive tractor beams.

Tenders are designed for the caring, repair and maintenance of ships and spare objects when a repair facility is not available or is busy.

Fuel Carriers are designed for the transportation of fuel throughout the Federation.

Passenger Ships are designed for the transportation of passengers throughout the Federation.

Containers are available in both standard and non-standard sizes. They are used for the transportation of cargo. Containers are essential for the Federation's cargo operations.



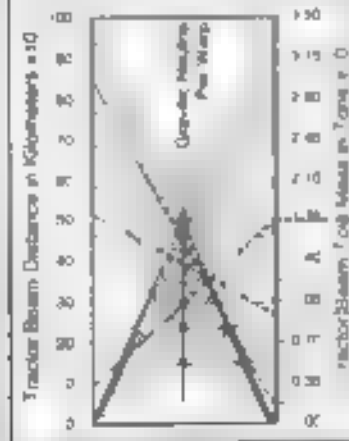
Warp Conversion

Starship Reference Manual, 3rd Edition, Appendix 1
Warp Speed Conversion Table

Warp Factor	Speed (Knots)	Speed (Miles per Hour)	Speed (Meters per Second)
1.0	1000	1151	514.4
1.5	1500	1726	771.6
2.0	2000	2301	1028.8
2.5	2500	2876	1286.0
3.0	3000	3451	1543.2
3.5	3500	4026	1800.4
4.0	4000	4601	2057.6
4.5	4500	5176	2314.8
5.0	5000	5751	2572.0
5.5	5500	6326	2829.2
6.0	6000	6901	3086.4
6.5	6500	7476	3343.6
7.0	7000	8051	3600.8
7.5	7500	8626	3858.0
8.0	8000	9201	4115.2
8.5	8500	9776	4372.4
9.0	9000	10351	4629.6
9.5	9500	10926	4886.8
10.0	10000	11501	5144.0
10.5	10500	12076	5401.2
11.0	11000	12651	5658.4
11.5	11500	13226	5915.6
12.0	12000	13801	6172.8
12.5	12500	14376	6430.0
13.0	13000	14951	6687.2
13.5	13500	15526	6944.4
14.0	14000	16101	7201.6
14.5	14500	16676	7458.8
15.0	15000	17251	7716.0
15.5	15500	17826	7973.2
16.0	16000	18401	8230.4
16.5	16500	18976	8487.6
17.0	17000	19551	8744.8
17.5	17500	20126	9002.0
18.0	18000	20701	9259.2
18.5	18500	21276	9516.4
19.0	19000	21851	9773.6
19.5	19500	22426	10030.8
20.0	20000	23001	10288.0
20.5	20500	23576	10545.2
21.0	21000	24151	10802.4
21.5	21500	24726	11059.6
22.0	22000	25301	11316.8
22.5	22500	25876	11574.0
23.0	23000	26451	11831.2
23.5	23500	27026	12088.4
24.0	24000	27601	12345.6
24.5	24500	28176	12602.8
25.0	25000	28751	12860.0
25.5	25500	29326	13117.2
26.0	26000	29901	13374.4
26.5	26500	30476	13631.6
27.0	27000	31051	13888.8
27.5	27500	31626	14146.0
28.0	28000	32201	14403.2
28.5	28500	32776	14660.4
29.0	29000	33351	14917.6
29.5	29500	33926	15174.8
30.0	30000	34501	15432.0
30.5	30500	35076	15689.2
31.0	31000	35651	15946.4
31.5	31500	36226	16203.6
32.0	32000	36801	16460.8
32.5	32500	37376	16718.0
33.0	33000	37951	16975.2
33.5	33500	38526	17232.4
34.0	34000	39101	17489.6
34.5	34500	39676	17746.8
35.0	35000	40251	18004.0
35.5	35500	40826	18261.2
36.0	36000	41401	18518.4
36.5	36500	41976	18775.6
37.0	37000	42551	19032.8
37.5	37500	43126	19290.0
38.0	38000	43701	19547.2
38.5	38500	44276	19804.4
39.0	39000	44851	20061.6
39.5	39500	45426	20318.8
40.0	40000	46001	20576.0
40.5	40500	46576	20833.2
41.0	41000	47151	21090.4
41.5	41500	47726	21347.6
42.0	42000	48301	21604.8
42.5	42500	48876	21862.0
43.0	43000	49451	22119.2
43.5	43500	50026	22376.4
44.0	44000	50601	22633.6
44.5	44500	51176	22890.8
45.0	45000	51751	23148.0
45.5	45500	52326	23405.2
46.0	46000	52901	23662.4
46.5	46500	53476	23919.6
47.0	47000	54051	24176.8
47.5	47500	54626	24434.0
48.0	48000	55201	24691.2
48.5	48500	55776	24948.4
49.0	49000	56351	25205.6
49.5	49500	56926	25462.8
50.0	50000	57501	25720.0

Tractor Beam Specifications

Primary Tractor Beam and Calculator



Tractor Beam

The Tractor Beam is a powerful weapon used by the Federation. It is able to pull objects towards the ship. The Tractor Beam is used for a variety of purposes, including defense, transport, and exploration. The Tractor Beam is a powerful weapon and is essential for the Federation's operations.

Range: 1000 km
Max. Tonnage: 1000 tons
Max. Speed: 100 km/h

Range: 1000 km
Max. Tonnage: 1000 tons
Max. Speed: 100 km/h

Range: 1000 km
Max. Tonnage: 1000 tons
Max. Speed: 100 km/h



Size Comparison

Cruiser



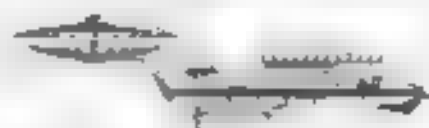
Destroyer



Battlecruiser



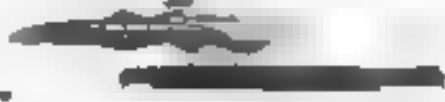
Submarine



Heavy Cruiser



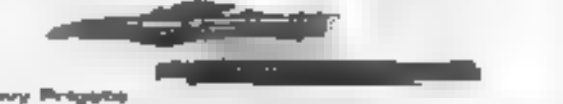
Frigate



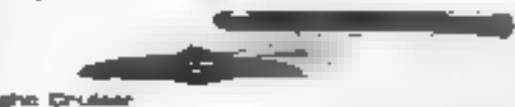
Heavy Cruiser



Heavy Frigate



Light Cruiser



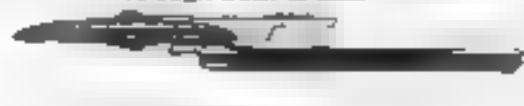
Through Deck Cruiser



Tactical Cruiser



Transport/Tug



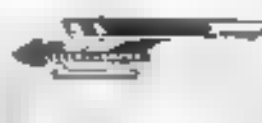
Cargo Drone



Freighter



Container Tug



Supply Tender



Starliner



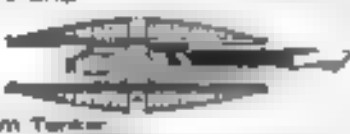
Transport Ship



Supply Tender



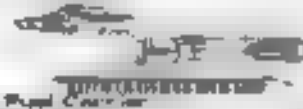
Dauphin Tender



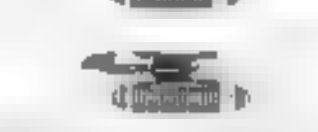
Heavy Tug



Neutrino Fuel Carrier



Tug



CRUISER



General Information

Specific Role: The Cruiser is a moderately armed, general purpose, defense capable exploration and research vessel. This graceful birdlike cruiser is equipped with powerful shields, long range sensors and is quite maneuverable.

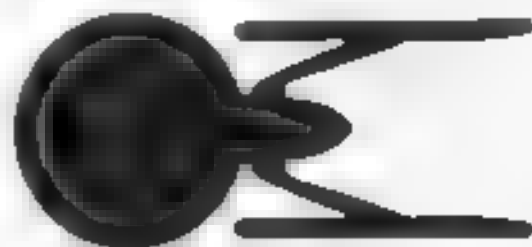
Physical Description: The BS-2070's bridge is centered on top of the PH290 (C-15) primary hull and the AN-4's navigational dome is mounted underneath. Two (B12/60-20) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (B1/58-27) connecting dorsal mates the primary hull to the (S-1258 C-14) secondary hull. Two (P1/2/50-200) photon torpedo bays and two (B12/30-20) phaser banks are located fore and aft of the secondary hull. Four (P1/30-20) phasers are mounted laterally, as well as, just above the forward photon bay is a (T135/1-40) tractor beam emitter and below is the (AN-6 A) main navigation deflector. Just below the rear photon bay is a large cargo/hangar bay. The (M50/28-48) intermix chamber rises vertically from the deflection crystal down to the secondary hull where an electric rail allows the core to be jettisoned downward in an emergency. The matter and matter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (R-700/8-18) dual impulse rail located in the rear of the primary hull provides sub light propulsion. For warp propulsion two (S10-1+2/08T) nacelles are supported by (P1/70-28) support pylons mounted half way back on the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 88126.81 m²



Top Silhouette
Area 37972.91 m²



Port Silhouette
Area 18671.94 m²

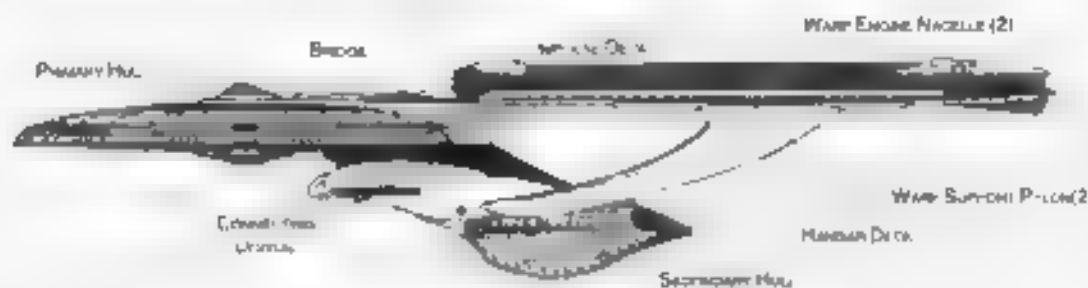


Front Silhouette
Area 5392.44 m²

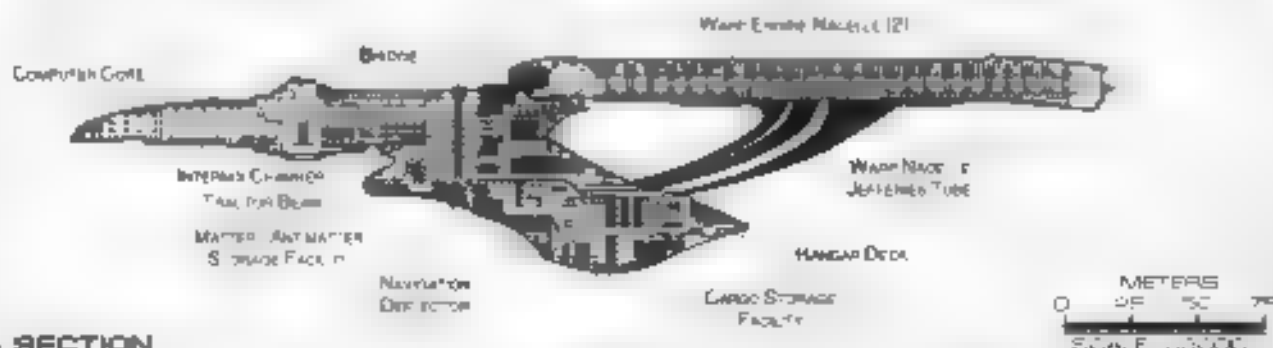


CRUISER

SOLARIS CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Cruiser

Category: Cruiser

Class: Solaris

Type: Class

Model: MK-Xia

Naval Construction Contract: 24018

Number Proposed: 88

Number Constructed: 48

Number in Service: 45

Number Lost: 3

Dimensions:

Overall Dimensions (Meters)

Length: 118.32 m

Width: 77.2 m

Height: 83.24 m

Primary Hull Dimensions (Meters)

Length: 98.5 m

Width: 72 m

Height: 90.7 m

Secondary Hull Dimensions (Meters)

Length: 45.74 m

Width: 41.62 m

Height: 48.49 m

Warp Unit Dimensions (Meters)

Length: 27.61 m

Width: 5.92 m

Height: 20.4 m

Displacement (Metric Tons)

Light: 240176.4

Standard: 370795.48

Full Load: 787176.48

Performance:

Impulse Units: Dual Duct (WR73E-B-M)

Impulse Engine Output: 64E+4 W

Impulse Power Index: 4

Max Cruising: 1

Acceleration Rate:

0.00-0.25 Impulse: 0.122 sec

0.25-0.50 Impulse: 0.192 sec

0.50-0.75 Impulse: 0.257 sec

0.75-Full Impulse: 0.322 sec

Warp Units: 2 Nacelle Units (SW174E-10RT)

Warp Engine Output: 9.85E+5 W

Warp Power Index: 4

Optimum Speed: 1

Max Safe Cruising: 7

Emergency Speed: 8.45

Max Speed: 9.5

Destructive Speed: 9.4

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 143 sec

Warp 3 Warp 4: 228 sec

Warp 5 Warp 6: 362 sec

Warp 7 Warp 8: 474 sec

Warp 9 Warp 10: 628 sec

Warp 11 Warp 12: 828 sec

Warp 13 Warp 14: 1074 sec

Warp 15 Warp 16: 1374 sec

Warp 17 Warp 18: 1728 sec

Warp 19 Warp 20: 2136 sec

Warp 21 Warp 22: 2598 sec

Warp 23 Warp 24: 3114 sec

Warp 25 Warp 26: 3684 sec

Warp 27 Warp 28: 4308 sec

Warp 29 Warp 30: 4986 sec

Warp 31 Warp 32: 5718 sec

Warp 33 Warp 34: 6504 sec

Warp 35 Warp 36: 7344 sec

Warp 37 Warp 38: 8238 sec

Warp 39 Warp 40: 9186 sec

Warp 41 Warp 42: 10188 sec

Warp 43 Warp 44: 11244 sec

Warp 45 Warp 46: 12354 sec

Warp 47 Warp 48: 13518 sec

Warp 49 Warp 50: 14736 sec

Warp 51 Warp 52: 16008 sec

Warp 53 Warp 54: 17334 sec

Warp 55 Warp 56: 18714 sec

Warp 57 Warp 58: 20148 sec

Warp 59 Warp 60: 21736 sec

Warp 61 Warp 62: 23376 sec

Warp 63 Warp 64: 25068 sec

Warp 65 Warp 66: 26814 sec

Warp 67 Warp 68: 28614 sec

Warp 69 Warp 70: 30468 sec

Warp 71 Warp 72: 32376 sec

Warp 73 Warp 74: 34338 sec

Warp 75 Warp 76: 36354 sec

Warp 77 Warp 78: 38424 sec

Warp 79 Warp 80: 40548 sec

Warp 81 Warp 82: 42726 sec

Warp 83 Warp 84: 44958 sec

Warp 85 Warp 86: 47234 sec

Warp 87 Warp 88: 49554 sec

Warp 89 Warp 90: 51918 sec

Warp 91 Warp 92: 54324 sec

Warp 93 Warp 94: 56772 sec

Warp 95 Warp 96: 59262 sec

Warp 97 Warp 98: 61794 sec

Warp 99 Warp 100: 64368 sec

Bridge:

Replacement: 20

Inspector Beam:

Type Capacity: 5.50E+06 m

Max Range: 94E+05 cm

Cargo Specification:

Standard Cargo Unit: 205

Cargo Capacity: 4.5E+07 m

High-Speed Specification:

Docking Port: 2

Short-Range Range:

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Short-Range Standard: 34

Work Bay: 2

Travel Pad: 2

Aggravate Shuttle: 1

Light Shuttle: 1

Standard Shuttle: 4

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 4

Stellar Drone: 3

Light Fighter: 4

Fighter: 1

Heavy Fighter: 3

Lifeline: 1

Turbolift: 15 persons: 72

Liftboat: 10 persons: 3

Liftboat: 30 persons: 9

Liftboat: 60 persons: 1

Liftboat: 120 persons: 1

Liftboat: 240 persons: 1

Liftboat: 480 persons: 1

Liftboat: 960 persons: 1

Liftboat: 1920 persons: 1

Liftboat: 3840 persons: 1

Liftboat: 7680 persons: 1

Liftboat: 15360 persons: 1

Liftboat: 30720 persons: 1

Liftboat: 61440 persons: 1

Liftboat: 122880 persons: 1

Liftboat: 245760 persons: 1

Liftboat: 491520 persons: 1

Liftboat: 983040 persons: 1

Liftboat: 1966080 persons: 1

Liftboat: 3932160 persons: 1

Liftboat: 7864320 persons: 1

Liftboat: 15728640 persons: 1

ECM Index: 0.80

Shield Rating:

Shield Index: 1.03

Shield Power: 16E+2 W

Refresh Rate: 3.29E+2 W

Breakdown Rate: 3.94E+2 W

Shield Dimensions (Meters)

Length: 40.96 m

Width: 26.54 m

Height: 24.85 m

Weapons:

Phase Power Index: 0.875

Phase Power Index: 0.667

Vessel Power Index: 0.1

Weapon Placement:

Beam (Phase): Total: 14 banks 2 each

Output: 2E+4 W 3.7E+4 W

Range: 4 IF 0.05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 2

Star Banks: 2

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Charged/Phase): Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Star Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Phase): Total: 4 Bays

Stock: 80

Range: 9.0E+08 km

Output: 10.55 Megatons

Rate of Fire: 15 ppm

Forward Bay: 2

Star Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

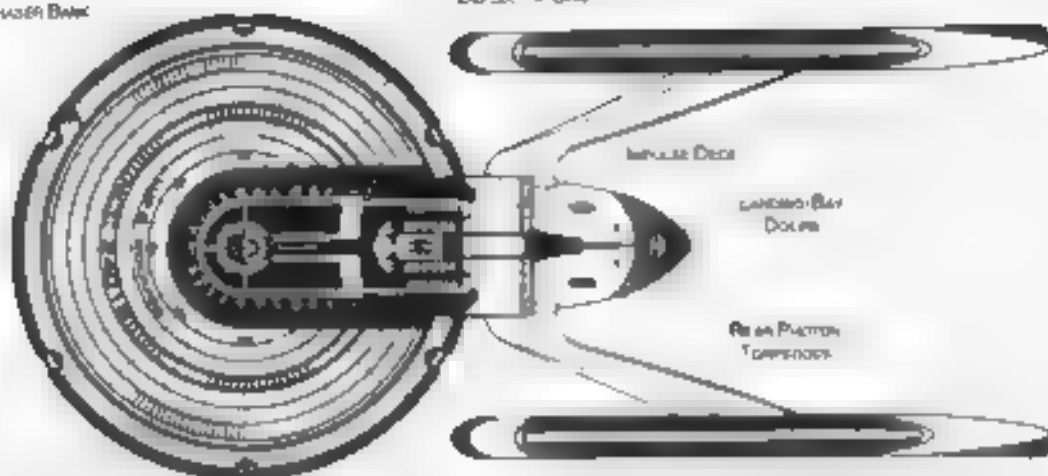
FEDERATION VESSEL

CRUISER



PHASER BANK

DEPLOYMENT CRIB



LIFEBOATS

REACTION CONTROL
THRUSTERSLANDING BAY
DOORSREAR PHOTON
TORPEDOESREACTION CONTROL
THRUSTERS

TOP PROFILE

PHOTON TORPEDO
TUBES (2)

NAVIGATION DEFLECTOR

LANDING BAY
DOORSREAR PHOTON
TORPEDOES

FRONT PROFILE

REAR PROFILE

MAIN SENSOR
ARRAY

NAVIGATION DECK

REACTION CONTROL
THRUSTERS

LIFEBOATS

PHASER BANK

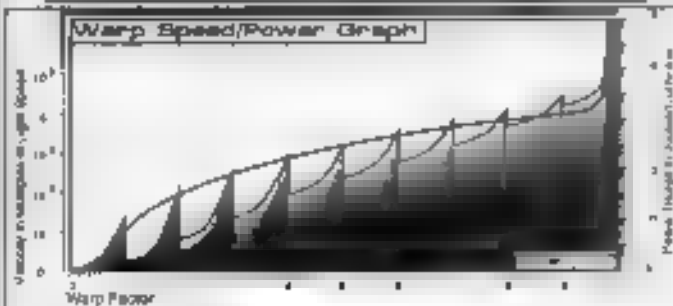
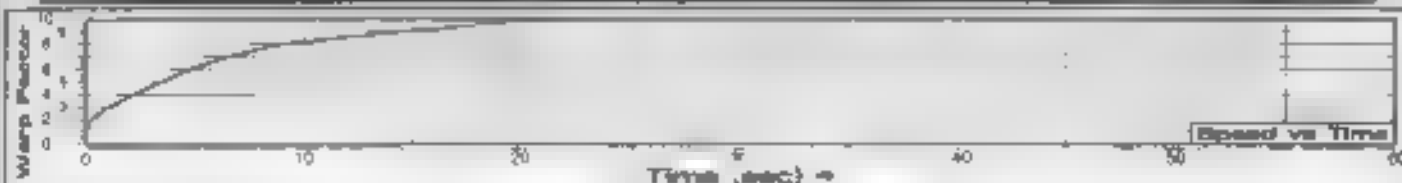
METERS
0 25 50 75

SCALE 1:30000

BOTTOM PROFILE

[illegible]

Tractor Beam Specifications



Field Length: 603.71m
Field Width: 200.23m
Field Volume: 100.44m



Front Warp Field Profile
Cross Section Area 24404.1 m²



Port Warp Field Profile
Cross Section Area 78447.00 m²



Top Warp Field Profile
Cross Section Area: 170720.88 m²

WARP FIELDS

SAM3 04:02:01:04

STARFLEET REFERENCE MANUAL

SOLARIS CLASS

STIFFENING MEMBER VESSEL

DREADNOUGHT



General Information

Specific Role: The Dreadnought is an immense starship capable of massive destruction and is often used to display a show of force in troubled areas. It is equipped with extremely powerful shields and sensors as well as extensive ECM systems. This vessel can take quite a beating. During military operations, the dreadnought is used as a point assault ship and for main line defense.

Physical Description: The BS25/C (H) bridge is centered on top of the (P)1322/C (T5) extended primary hull, and the (DN)8,6N navigational dome is centered underneath. Five (HP)2/60 (2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (DU)210-44F connecting dorsal mates the primary hull to the (SH)55/C (H) secondary hull. Two (PH)2/50 (20C) photon torpedo bays are located for and aft and two (BL)2/60 (2C) phaser banks are located above and below the hangar bay. Two banks of (HP)2/30 (2C) phasers are mounted underneath as well. Just above the forward photon bay is a (TH)5/640 tractor beam emitter and below is the (L)N10, A1H main navigation deflector. Just above the rear photon bay is a large cargo/hangar bay. The M100/42 (4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection chute allows the core to be jettisoned downward in an emergency. The matter anti-matter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (RF)70H, 0-RJ dual impulse jet located on the rear of the primary hull provides sub light propulsion. For warp propulsion two (SW)104/2 (10RT) nacelles are supported by (DU)70, (2D) support pylons mounted to the back of the secondary hull and a third warp nacelle on top is attached just forward of the main impulse drive by a (DL)50, (2T) support pylon. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



**NIGHTER CLASS
DREADNOUGHT**

Ship Silhouettes

Total Target Area 70785.17 m²



Top Silhouette
Area 4944.70 m²



Port Silhouette
Area 18780.01 m²

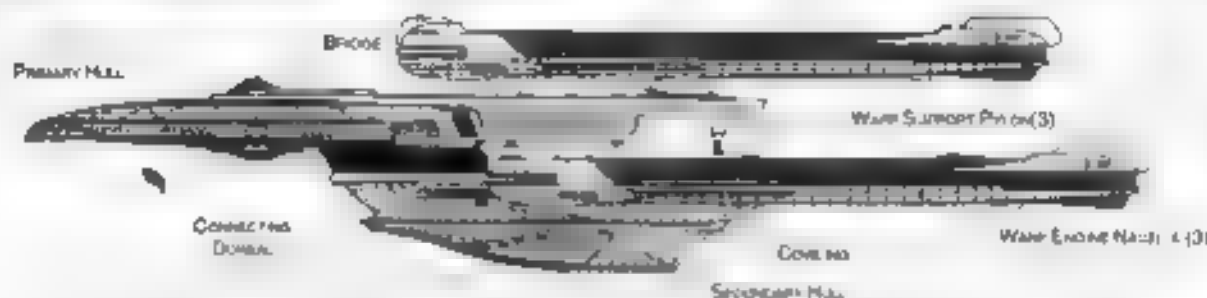


Front Silhouette
Area 5125.46 m²

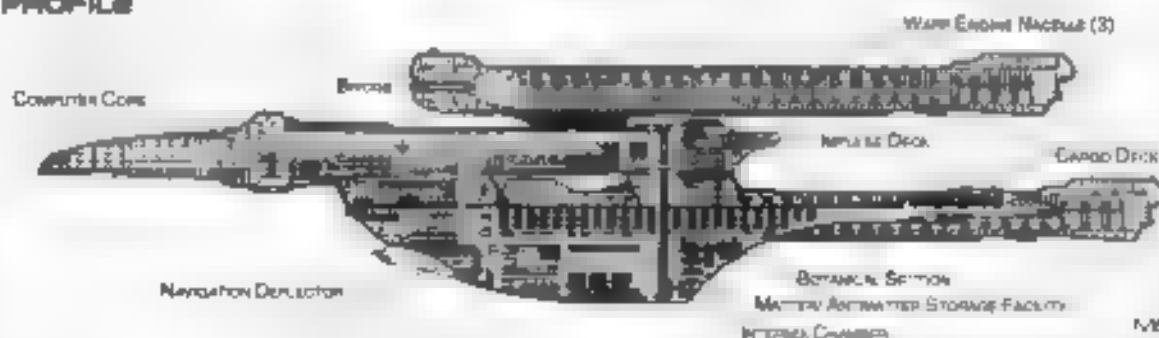


DREADNOUGHT

METERS 0 25 50



PORT PROFILE



CROSS SECTION



Statistics

Classification: Dreadnought
Category: Cruiser
Class: Nerrow
Type: Class
Model: MK-Xa
Naval Construction Contract: 21028
Number Proposed: 50
Number Constructed: 38
Number In Service: 34
Number Lost: 2
Dimensions:

Overall Dimensions (Meters)

Length: 429.54 m
Width: 77.2 m
Height: 97.27 m

Primary Hull Dimensions (Meters)

Length: 287.51 m
Width: 77.2 m
Height: 30.71 m

Secondary Hull Dimensions (Meters)

Length: 27.70 m
Width: 44.40 m
Height: 40.90 m

Warp Unit Dimensions (Meters)

Length: 25.29 m
Width: 10.80 m
Height: 24.12 m

Displacement (Metric Tons)

Light: 483246 m
Standard: 48574 m
Full Load: 484048 m

Performance:

Impulse Units: Dual Unit (IRFTOE: D-IR)

Impulse Engine Output: 68E+14 W

Impulse Power Index: 38

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.223 sec

0.25-0.50 Impulse: 0.750 sec

0.50-0.75 Impulse: 0.468 sec

0.75-Full Impulse: 0.581 sec

Warp Units: 2 Nacelle Jaws SW1042 (10FT)

Warp Engine Output: 80E+8 W

Warp Power Index: 1.38

Optimum Speed: 5
Max Safe Cruising: 7
Emergency Speed: 5.65
Max Speed: 9.45
Destructive Speed: 9.6E

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 0.45 sec

Warp 2 Warp 3: 0.33 sec

Warp 3 Warp 4: 0.86 sec

Warp 4 Warp 5: 0.68 sec

Warp 5 Warp 6: 0.55 sec

Warp 6 Warp 7: 0.46 sec

Warp 7 Warp 8: 0.60 sec

Warp 8 Warp 9: 2.680 sec

Warp 9 Warp 10: 1.5.5 sec

Warp 10 Warp 11: 2.6.10 sec

Warp 11 Warp 12: 4.366

Duration (Years)

Standard: 4 Years

Maximum: 24 Years

Std. Ship Complement: 1070

Officers: 16

Crew (Package Grade): 53

Troops: 0

Passengers: 44

Emergency condition: +1437

Medical Facilities

Doctors:

Nurses: 2

Operating Rooms: 7

Beds: 8

Laboratories: 70

Transports: Total: 34

1 Person: 0

2 Person: 0

6 Person: 0

12 Person: 0

22 Person: 10

Small Cargo: 7

Medium Cargo: 7

Large Cargo: 0

Super Cargo: 0

Bridge: 1

Bridge: 53

Tactical Frame:

Tow Capacity: 9.99E+05 m

Max Range: 7E+15 km

Cargo Specifications

Standard Cargo Unit: 263

Cargo Capacity: 64.50 m

Mail/Debris Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay:

Medium Bay: 2

Large Bay:

Super Bay:

Shuttlecraft Standard: 76

Warp Room: 5

Travel Pods: 5

Aquatic Shuttle: 2

Light Shuttle:

Standard Shuttle: 14

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 6

Rifle Room:

Light Fighter: 10

Fighter:

Heavy Fighter: 2

Lifelines: 4

Turbolift (8 persons): 53

Liftboat (10 persons): 32

Liftboat (20 persons): 13

Liftboat (50 persons): 1

Cloaking Devices: 1

Escape/Retreat Talons

Planetary Bury: 6016

Stellar Survey: 3200

Short Range: 14560

Long Range: 2100

Navigation: 2.58

Special: 1000

Comms: 7

Type: Dryotrom Destruct: 11/10

Type: Dryotrom Destruct: 11/10

ECM Index: 2

Shield Rating:

Shield Index: 1.18

Shield Power: 32E+12 W

Refresh Rate: 3.76E+1 W

Breakdown Rate: 4.52E+1 W

Shield Dimensions (Meters)

Length: 644.6 m

Width: 265.82 m

Height: 145.81 m

Weapons:

Photon Power Index: 000

Photon Power Index: 657

Vessel Power Index: 1333

Weapon Placement:

Beam (Photon) Total: 18 banks 2 each

Output: 7.50E+12 W 3.7E+12 W

Range: 4.10E+05 km

Rate of Fire: 41 ppm Cont

Forward Banks: 4

Star Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (MegaPhoton) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 200

Range: 2.90E+05 km

Output: 10.15 Megatons

Rate of Fire: 5 ppm

Forward Bay: 2

Rear Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

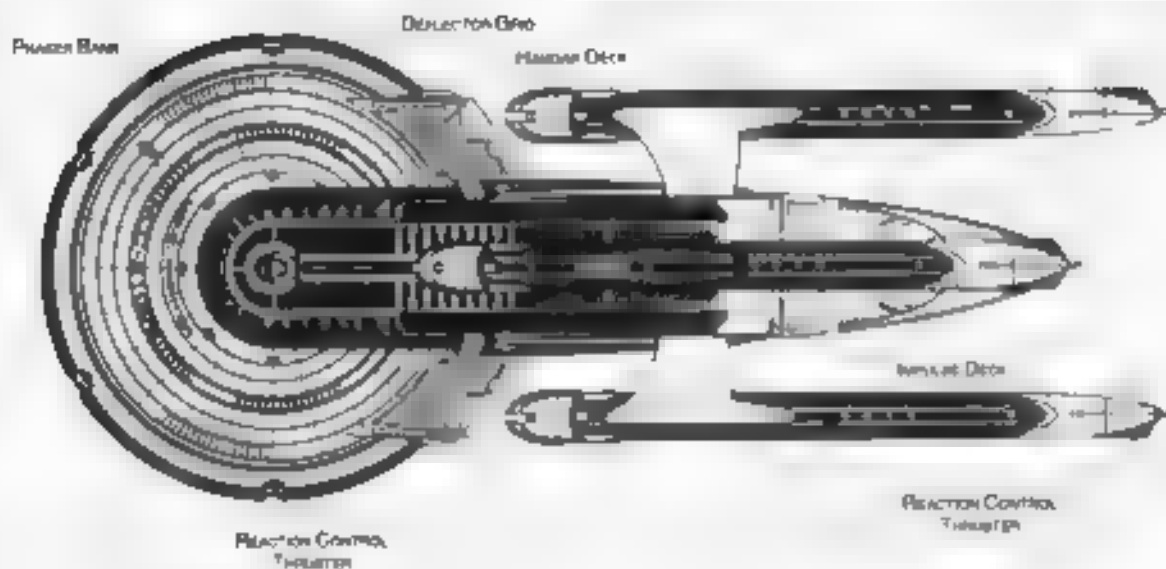
Lower Bay: 0

FEDERATION W. 1103-1

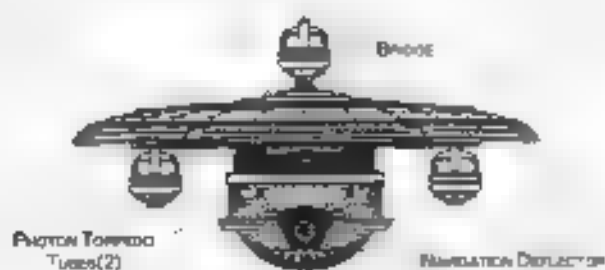
SRM3 04:02:02:02

STARFLEET REFERENCE MANUAL

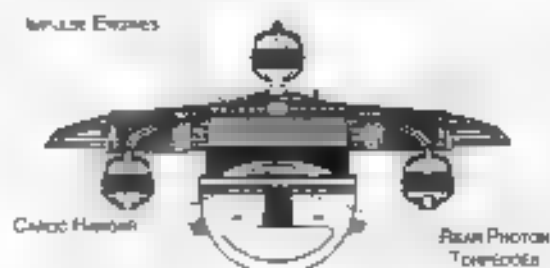
DREADNOUGHT



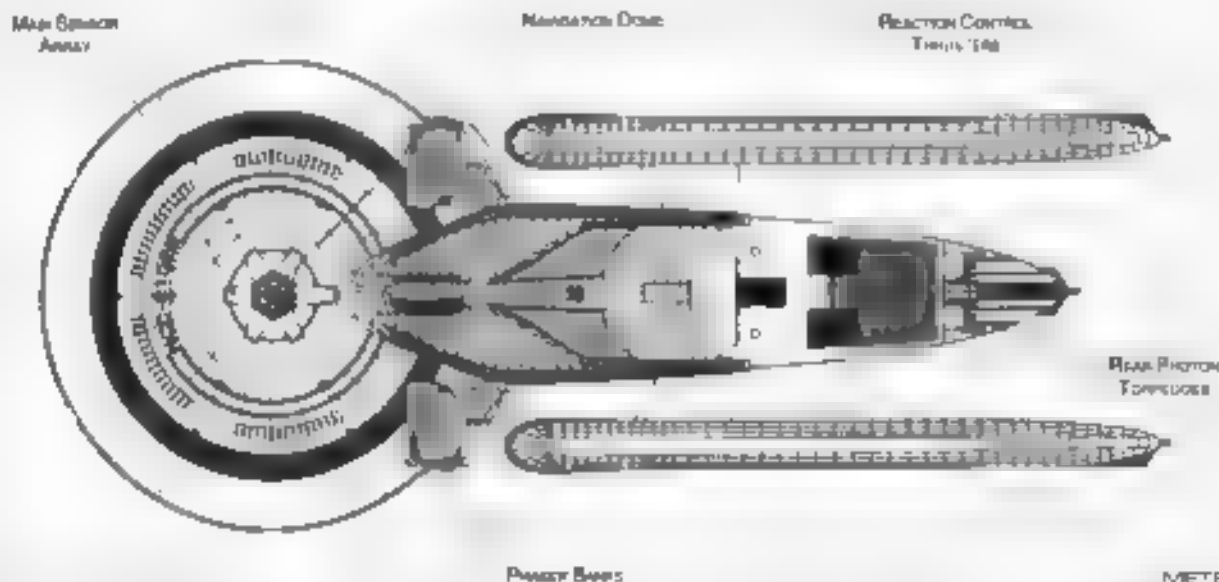
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





DREADNOUGHT

Ship Names

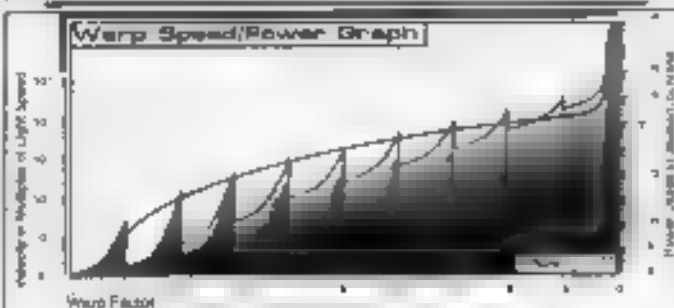
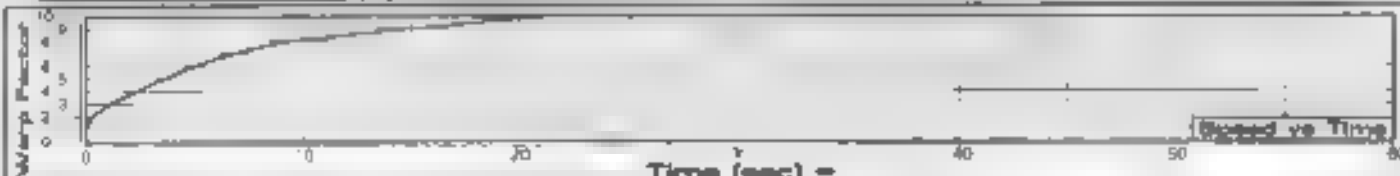
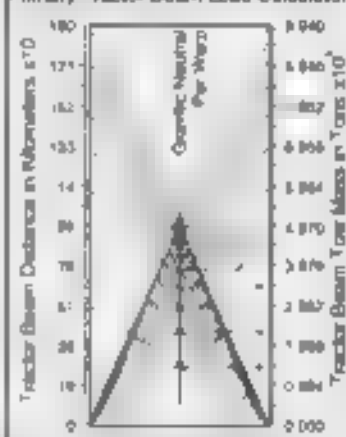
THE FOLLOWING SHIPS OF THE NX-KL CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 6697.2

APRIL 1A KX KL 108	KX SHIP 1A 108
APRIL 1B KX KL 108	KX SHIP 1B 108
APRIL 1C KX KL 108	KX SHIP 1C 108
APRIL 1D KX KL 108	KX SHIP 1D 108
APRIL 1E KX KL 108	KX SHIP 1E 108
APRIL 1F KX KL 108	KX SHIP 1F 108
APRIL 1G KX KL 108	KX SHIP 1G 108
APRIL 1H KX KL 108	KX SHIP 1H 108
APRIL 1I KX KL 108	KX SHIP 1I 108
APRIL 1J KX KL 108	KX SHIP 1J 108
APRIL 1K KX KL 108	KX SHIP 1K 108
APRIL 1L KX KL 108	KX SHIP 1L 108
APRIL 1M KX KL 108	KX SHIP 1M 108
APRIL 1N KX KL 108	KX SHIP 1N 108
APRIL 1O KX KL 108	KX SHIP 1O 108
APRIL 1P KX KL 108	KX SHIP 1P 108
APRIL 1Q KX KL 108	KX SHIP 1Q 108
APRIL 1R KX KL 108	KX SHIP 1R 108
APRIL 1S KX KL 108	KX SHIP 1S 108
APRIL 1T KX KL 108	KX SHIP 1T 108
APRIL 1U KX KL 108	KX SHIP 1U 108
APRIL 1V KX KL 108	KX SHIP 1V 108
APRIL 1W KX KL 108	KX SHIP 1W 108
APRIL 1X KX KL 108	KX SHIP 1X 108
APRIL 1Y KX KL 108	KX SHIP 1Y 108
APRIL 1Z KX KL 108	KX SHIP 1Z 108

CLASSED AS "LOST IN THE LINE OF DUTY" THROUGHOUT ALL NAVIES ACCORDING WITH USS

Traction Beam Specifications

Primary Traction Beam Load Calculator



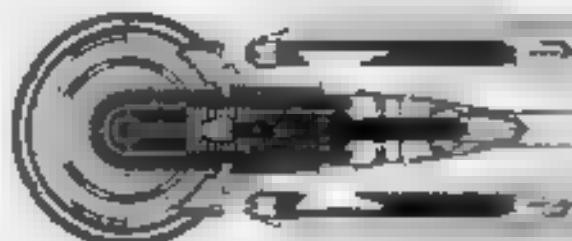
Field Length 823.17m
Field Width 878.89m
Field Height 138.07m



Front Warp Field Profile
Cross Section Area 83467.88 m²



Port Warp Field Profile
Cross Section Area 68867.30 m²



Top Warp Field Profile
Cross Section Area 178378.69 m²

WARP FIELDS

SRM3 04:02:02:04

STARFLEET REFERENCE MANUAL

NIGHTER CLASS

FEDERATION VESSEL

HEAVY CRUISER



General Information

Specific Role: The Heavy Cruiser is a well armed, general purpose defense capable vessel. Built to replace the Enterprise class, the Excelsior maintains classic lines and similar duties in diplomacy and exploration.

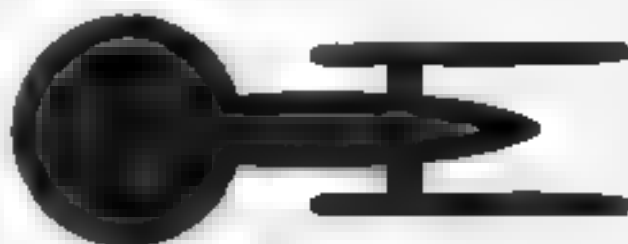
Physical Description: The TBS20/C (8) bridge is centered in top of the (PH290/C L5) primary hull and the TDS, GN navigation dome is centered underneath. Five (H12/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DI-190-48F) connecting dome, mates the primary hull to the (S 125K/C L4) secondary hull. Two (H12/50-20G) photon torpedo bays are located fore and aft and two (H12/60-2C) phaser banks are located above and below the hangar bay. Two banks of (B11/40-C) phasers are mounted underneath as well. Just below the forward photon bay is the TDS-0 A18i main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M4C/24-4F) interax chamber runs vertically from the deflection crystal down to the secondary hull where an ejector plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (GRF70E/8-IR) dual impulse unit located on the rear of the primary hull provides sublight propulsion. For warp propulsion two (SW-14-2-10KT) nacelles are supported by (DL-75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area: 84381.47 m²



Top Silhouette
Area: 84381.47 m²



Port Silhouette
Area: 12817.43 m²



Front Silhouette
Area: 8884.02 m²



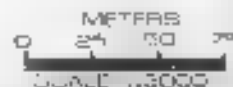
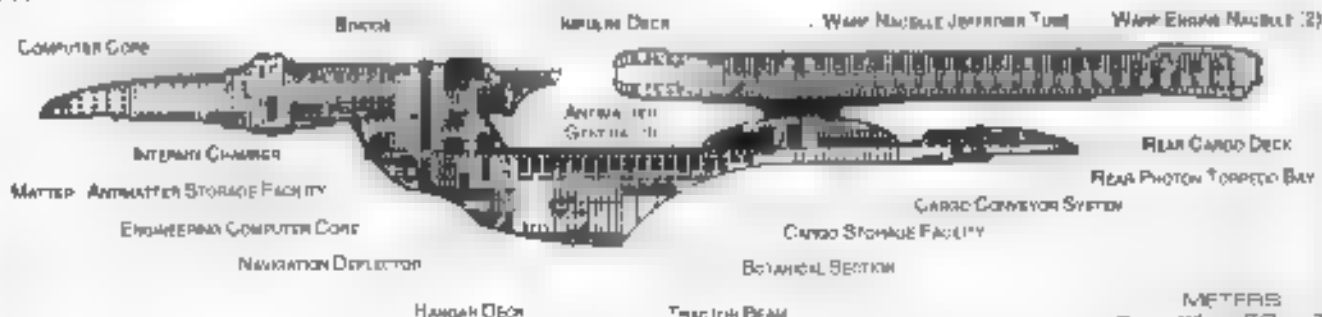
HEAVY CRUISER

EXCELSIOR CLASS

FEDERATION VESSEL



PORT PROFILE



CROSS SECTION

Statistics

Classification: Heavy Cruiser

Category: Cruiser

Class: Excelsior

Type: Class

Model: MK-Xc

Naval Construction Contract: 2000th 7000

Number Produced: 97

Number Constructed: 78

Number in Service: 74

Number Lost: 4

Dimensions:

Overall Dimensions (Meters)

Length: 46.05 m

Width: 77.2 m

Height: 14.93 m

Primary Hull Dimensions (Meters)

Length: 198.5 m

Width: 7.2 m

Height: 30.71 m

Secondary Hull Dimensions (Meters)

Length: 7.79 m

Width: 68.75 m

Height: 43.93 m

Warp Unit Dimensions (Meters)

Length: 24.06 m

Width: 17.43 m

Height: 20.33 m

Displacement (Metric Tons)

Light: 30975 m

Standard: 39500 m

Full Load: 44042 m

Performance: m

Impulse Drive: Dual Unit (IRF70E/R)

Impulse Engine Output: 84E 14 W

Impulse Power Index: 00

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.18 sec

0.25-0.50 Impulse: 0.28 sec

0.50-0.75 Impulse: 0.78 sec

0.75-Full Impulse: 0.477 sec

Warp Units: 2 Nacelle Units (SW1042-1047)

Warp Engine Output: 104E+16 W

Warp Power Index: 00

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.5

Max Speed: 9.25

Destructive Speed: 9.5

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.201 sec

Warp 2 Warp 3: 0.322 sec

Warp 3 Warp 4: 1.2 sec

Warp 4 Warp 5: 7.40 sec

Warp 5 Warp 6: 1.870 sec

Warp 6 Warp 7: 2.02 sec

Warp 7 Warp 8: 2.584 sec

Warp 8 Warp 9: 3.710 sec

Warp 9 Warp 9.5: 5.245 sec

Warp 9.5 Warp 9.75: 6.552 sec

Warp 9.75 Warp 9.9: 10.807

Duration (Years)

Standard: 6 Years

Maximum: 24 Years

Ad. Ship Complement: 87

Officers: 11

Crew (Ensign Grade): 638

Troops: 52

Passengers: 00

Emergency condition: +003

Medical Facilities:

Doctors: 0

Nurses: 20

Operating Rooms: 7

Beds: 47

Laboratories: 2

Transportation Total: 24

1 Person: 0

2 Person: 0

6 Person: 8

12 Person: 0

22 Person: 8

Small Cargo: 4

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Brigs: 24

Reinforcements: 30

Tractor Beams:

Tom Capacity: 7.80E+06 m

Max Range: 1.77E+05 km

Cargo Specifications:

Standard Cargo Units: 900

Cargo Capacity: 45000 m

Shuttlecraft Specifications:

Docking Ports: 4

Shuttlecraft Bays Total:

Small Bay: 0

Medium Bay: 4

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 35

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle:

Light Shuttle:

Standard Shuttle: 0

Heavy Shuttle: 0

Cargo Shuttle:

Assault Shuttle: 5

Killer Bots: 0

Light Fighters: 4

Fighters: 4

Heavy Fighter: 0

Lifboats: 00

Lifboat (5 person): 40

Lifboat (10 person): 27

Lifboat (20 person): 1

Lifboat (30 person): 1

Cloaking Device: 0

Sensor Index Values:

Planetary Survey: 0000

Minel Survey: 0000

Short Range: 0000

Long Range: 0000

Navigation: 0000

Special: 0000

Computers: 2

Type: Daystrom Electronic IVc

Type: Daystrom Electronic IIIq

ECM Index: 1.00

Shield Rating:

Shield Index: 1.00

Holdoff Power: 13E+2 W

Refresh Rate: 3.20E+1 W

Breakdown Rate: 3.84E+1 W

Shield Dimensions (Meters)

Length: 700.58 m

Width: 285.82 m

Height: 2.40 m

Weapons:

Phase Power Index: 000

Photon Power Index: 1000

Vocal Power Index: 1000

Weapon Placement:

Beam (Phasers) Total: 18 paws 2 each

Output: 7.80E+11 W 3.7111 W

Range: 4.10E+05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 20

Range: 2.80E+05 km

Output: 10.55 Megajoules

Rate of Fire: 5 ppm

Forward Bay: 2

Rear Bay: 2

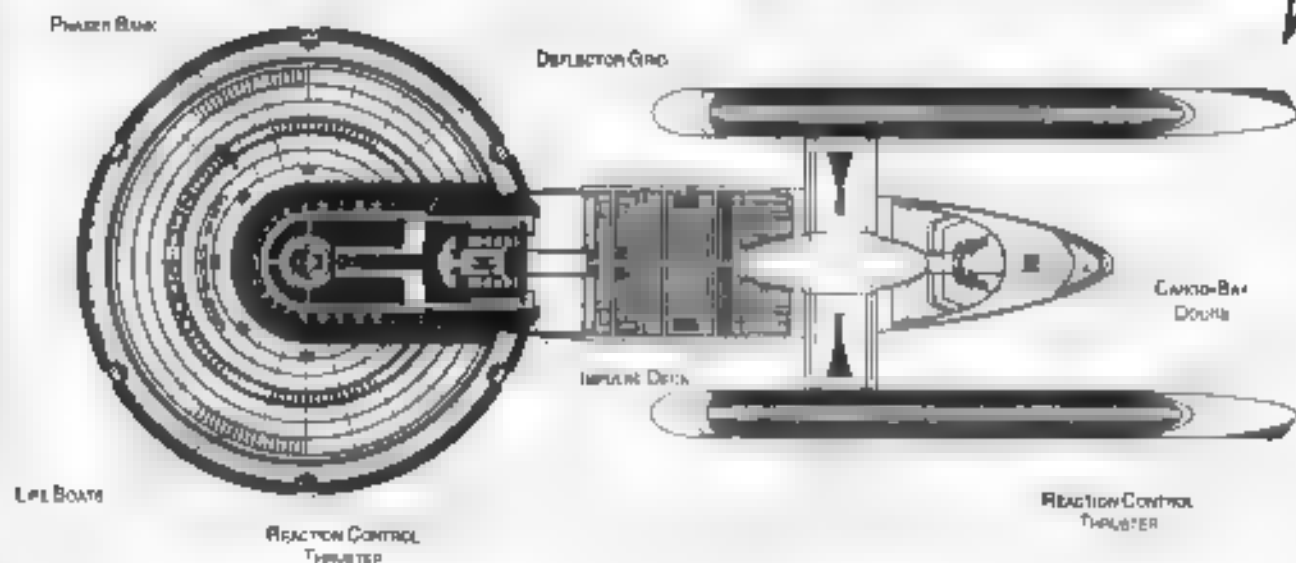
Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

HEAVY CRUISER



TOP PROFILE

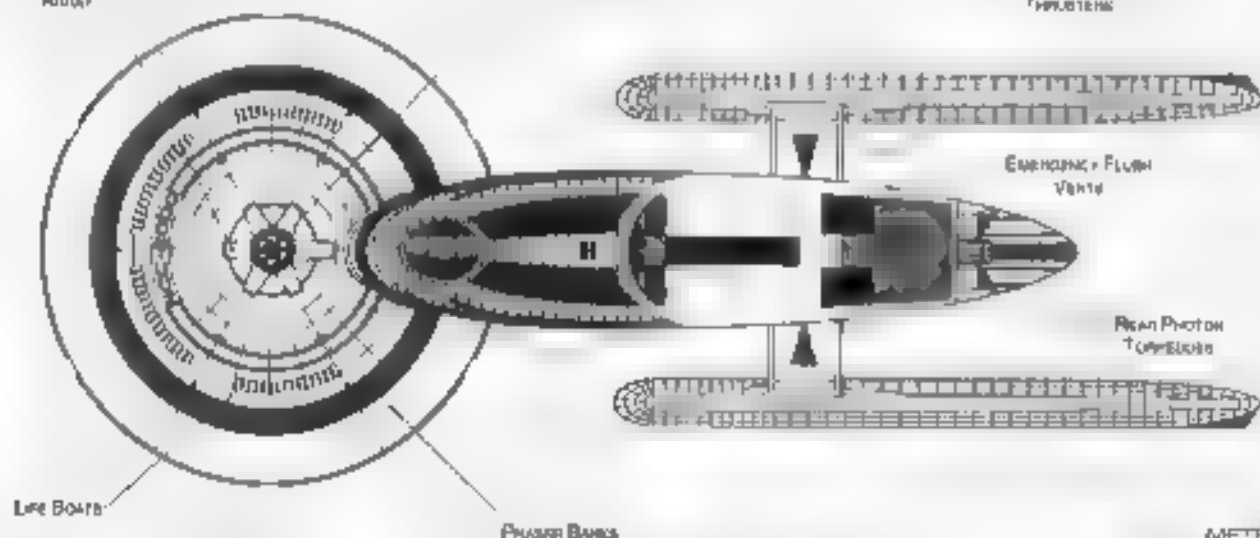


FRONT PROFILE

Main Sensor Array

Navigation Dome

Reaction Control Thrusters



BOTTOM PROFILE





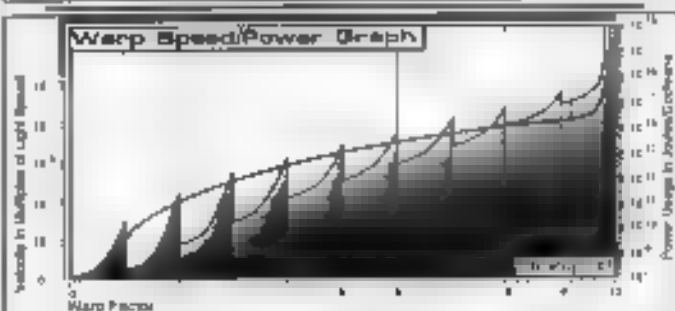
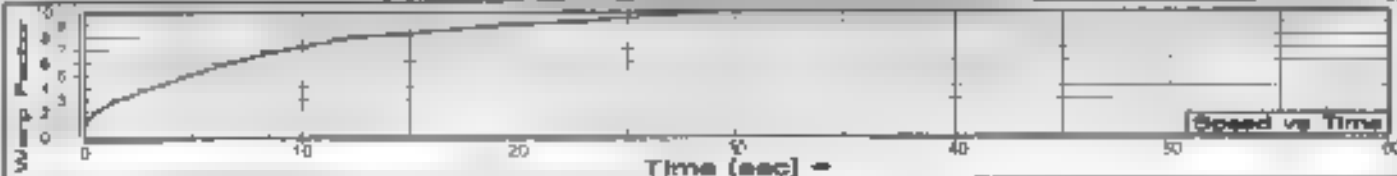
Ship Names

Tractor Beam Specifications

Primary Tractor Beam Load Calculator

[illegible]

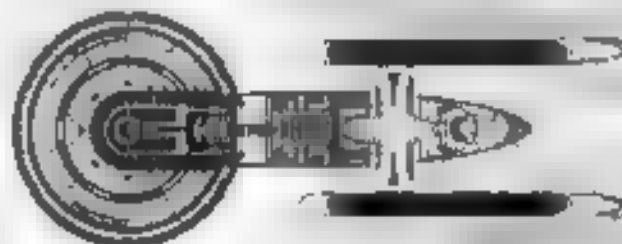
RELATIONSHIP. FROST IN THE LINE OF DUTY. *PROPOSED ALL NAMES PRECEDED WITH U.S.S.



Field Length 894.77m
Field Width 485.84m
Field Volume 127.05m



Front Warp Field Profile
Cross Section Area 25318.74 m²

Porto Wierp Field Profile
Cross Section Area 60567.78 m²

Top Warp Field Profile
Cross Section Area: 173953.65 m²

WARR FIELDS

SAME 04:02:03:04

STARFLEET REFERENCE MANUAL

HEAVY CRUISER



General Information

Specific Role: The Heavy Cruiser is a well armed, general purpose defense capable vessel. Built to replace the Enterprise class, the Excelsior class maintains classic lines and similar duties in diplomacy and exploration. Hull reinforcements on either side of the navigation deflector were added after a few prototypes experienced heavy damage in relatively light battles.

Physical Description: The (H320/C-08) Bridge is centered on top of the (PH290/C-L50) primary hull, and the (DN8-6N) navigational dome is centered underneath. Five (SP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (D11/190-48F) connecting dorsal mates the primary hull to the (S-1258/C-L40) secondary hull. Two (P12-50-2aG) photon torpedo bays are located forward and aft and two (SP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (BP1/40-1C) plasma are mounted underneath as well. Just below the forward photon bay is the (DN10/A-8-2) main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M80-24-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter and antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (I-3F70E-A-4) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. Two additional hangar bays are located to either side of the impulse drive. For warp propulsion, two (SW104/2-12RJ) nacelles are supported by (DL-75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 98899.88 m²



Top Silhouette

Area 48184.27 m²



Port Silhouette

Area 18316.74 m²



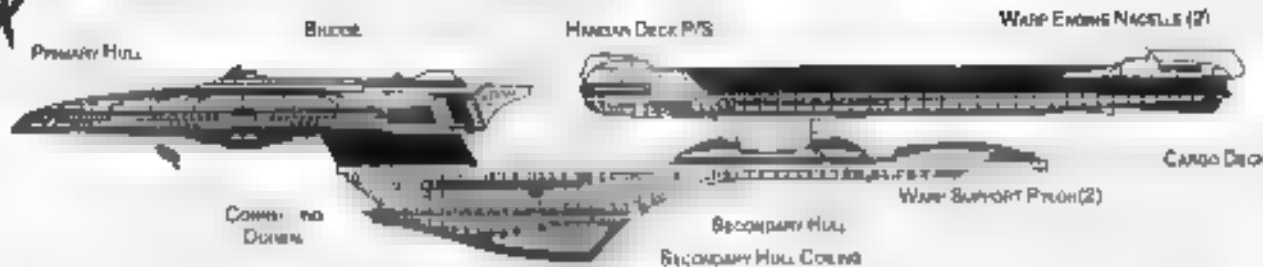
Front Silhouette

Area 98899.88 m²

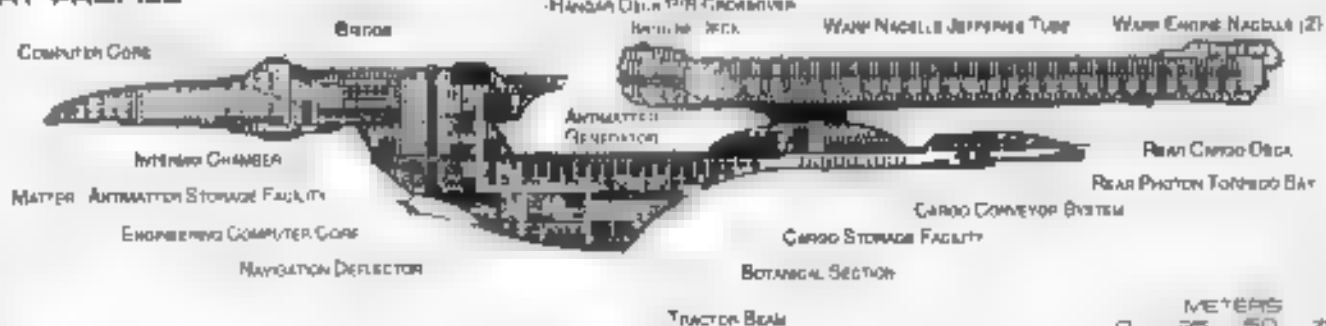


HEAVY CRUISER

DESIGN CLASS UPGRADE



PORT PROFILE



CROSS SECTION

Statistics

Classification: Heavy Cruiser

Category: Cruiser

Class: Explorer

Type: Class

Model: MK-134

NAVM Construction Contract: 2000/17008

Number Proposed: 87

Number Constructed: 78

Number in Service: 74

Number Lost: 4

Dimensions

Overall Dimensions (Meters)

Length: 470.88 m

Width: 177.2 m

Height: 78.88 m

Primary Hull Dimensions (Meters)

Length: 88.5 m

Width: 177.2 m

Height: 10.7 m

Secondary Hull Dimensions (Meters)

Length: 27.78 m

Width: 44.88 m

Height: 4.07 m

Warp Unit Dimensions (Meters)

Length: 250.24 m

Width: 19.88 m

Height: 24.12 m

Displacement (Metric Tons)

Light: 37003 mt

Standard: 48500 mt

Full Load: 45214 mt

Performance: mk

Impulse Units: Dual Dual (HF20E/0-IR)

Impulse Engine Output: 68E+14 W

Impulse Power Index: 1

Max Cruising: C

Acceleration Rate:

0.00-0.25 impulse: 0.82 sec

0.25-0.50 impulse: 0.286 sec

0.50-0.75 impulse: 0.082 sec

0.75-Full impulse: 0.477 sec

Warp Units: 2 Nacelle Units (SW104/2 12RU)

Warp Engine Output: 8E+16 W

Warp Power Index: 1...

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.8

Max Speed: 9.35

Destructive Speed: 9.8

Acceleration Power: 3

Acceleration Times:

Warp 1: Warp 2: 0.181 sec

Warp 2: Warp 3: 0.290 sec

Warp 3: Warp 4: 0.67 sec

Warp 4: Warp 5: 1 sec

Warp 5: Warp 6: 6.86 sec

Warp 6: Warp 7: 8.22 sec

Warp 7: Warp 8: 2.338 sec

Warp 8: Warp 9: 3.84 sec

Warp 9: Warp 10: 7.43 sec

Warp 10: Warp 11: 8.604 sec

Warp 11: Warp 12: 7.843

Warp 12: Warp 13: 7.843

Warp 13: Warp 14: 7.843

Warp 14: Warp 15: 7.843

Warp 15: Warp 16: 7.843

Warp 16: Warp 17: 7.843

Warp 17: Warp 18: 7.843

Warp 18: Warp 19: 7.843

Warp 19: Warp 20: 7.843

Warp 20: Warp 21: 7.843

Warp 21: Warp 22: 7.843

Warp 22: Warp 23: 7.843

Warp 23: Warp 24: 7.843

Warp 24: Warp 25: 7.843

Warp 25: Warp 26: 7.843

Warp 26: Warp 27: 7.843

Warp 27: Warp 28: 7.843

Warp 28: Warp 29: 7.843

Warp 29: Warp 30: 7.843

Warp 30: Warp 31: 7.843

Warp 31: Warp 32: 7.843

Warp 32: Warp 33: 7.843

Warp 33: Warp 34: 7.843

Warp 34: Warp 35: 7.843

Warp 35: Warp 36: 7.843

Warp 36: Warp 37: 7.843

Warp 37: Warp 38: 7.843

Warp 38: Warp 39: 7.843

Warp 39: Warp 40: 7.843

Warp 40: Warp 41: 7.843

Warp 41: Warp 42: 7.843

Warp 42: Warp 43: 7.843

Warp 43: Warp 44: 7.843

Warp 44: Warp 45: 7.843

Brigs: 27

Emitters: 33

Traction Beams:

Low Capacity: 7.83E+06 mt

Max Range: 82E+05 km

Cargo Specifications:

Standard Cargo Units: 87

Cargo Capacity: 48550 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 68

Work Bays: 4

Travel Pods: 4

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 8

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 0

Killer Bee: 0

Light Fighter: 0

Fighter: 8

Heavy Fighter: 0

Lifeboats: 8

Turbolift (5 person): 40

Lifeboat (10 person): 20

Lifeboat (20 person): 11

Lifeboat (30 person): 1

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.0789

Stellar Survey: 1.0506

Short Range: 0.9508

Long Range: 1.0250

Navigation: 0.9506

Special: 2.84

Communications: 2

Type: Daystrom Deutronic 14.6

Type: Daystrom Deutronic 14.6

ECM Index: 1.00

Shield Rating:

Shield Index: 10

Shield Power: 1.24E+12 W

Refresh Rate: 3.51E+1 W

Breakdown Rate: 4.22E+11 W

Shield Dimensions (Meters)

Length: 706.02 m

Width: 265.82 m

Height: 115.28 m

Weapons:

Phaser Power Index: 1.000

Photon Power Index: .000

Visual Power Index: .000

Weapon Placement:

Beam (Phasers) Total: 16 banks 2 each

Output: 7.50E+14 W 3.7E+14 W

Range: 4.0E+05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Phasers) Total: 4 Bays

Stock: 20

Range: 2.90E+05 km

Output: 0.85 Megajoule

Rate of Fire: 16 ppm

Forward Bay: 2

Rear Bay: 2

Port Bay: 0

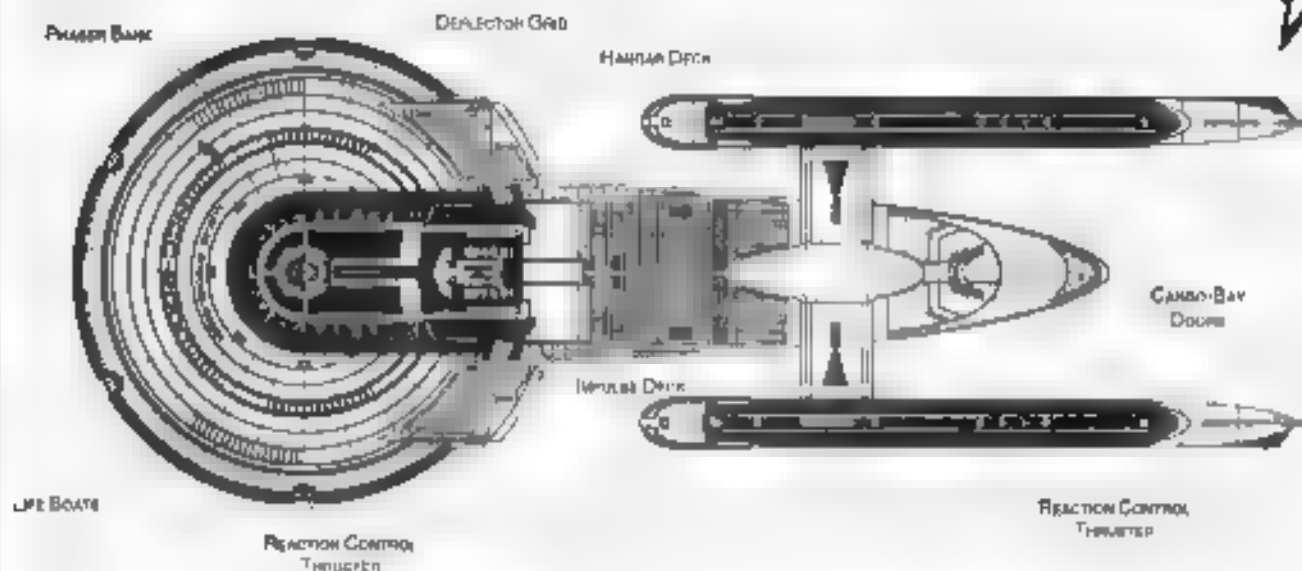
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

FEDERATION JESSIE

HEAVY CRUISER

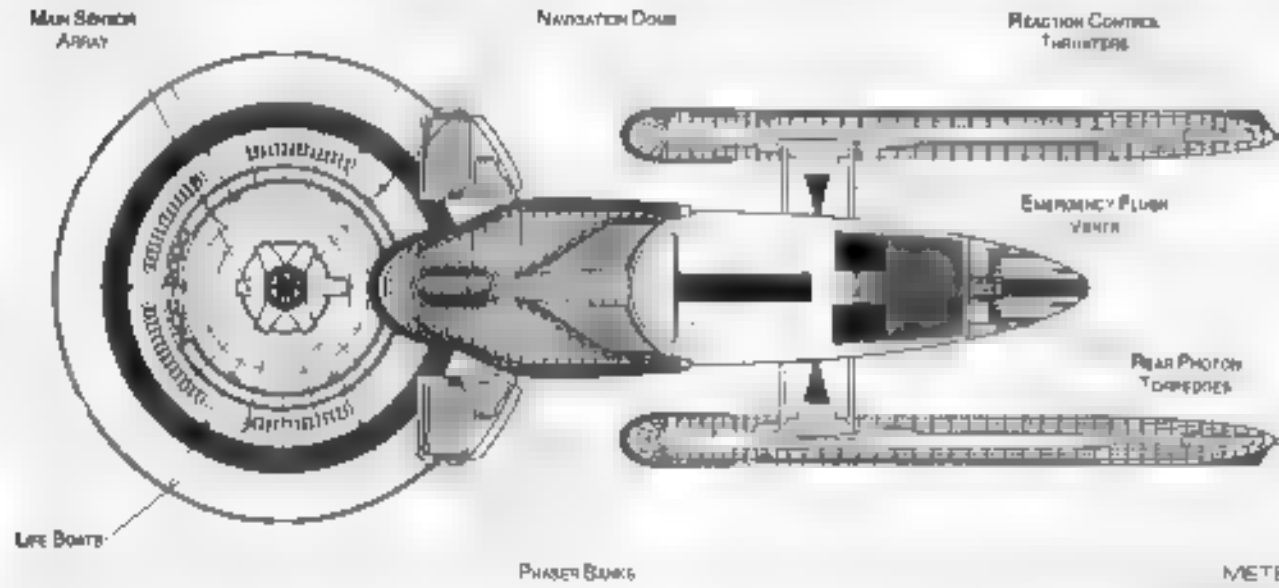


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





Tractor Beam Specifications

Primary Instructor Beam Load Calculator

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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STARFLEET REFERENCE MANUAL

LIGHT CRUISER



General Information

Specific Role: The Light Cruiser is a lightly armed, general purpose exploration vessel. This class starship is extremely maneuverable due to its high power to mass ratio. Other duties include system defense and commercial traffic patrol.

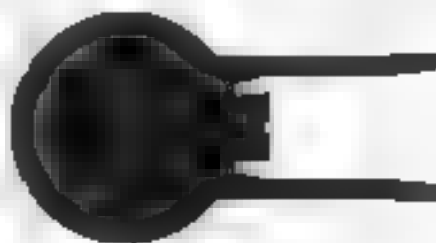
Physical Description: The BS20/C U8 bridge is centered on top of the (PH290/C 1.5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five BP2/60-2C phaser banks are mounted radially on the top and six are mounted on bottom of the primary hull. A (PB2/50-20C) photon torpedo bay is mounted underneath the front of the hull. A medium hangar bay is located underneath the impulse engines. The (M55/28-2B) internal chamber runs horizontally between the jefferies tubes however the core can be jettisoned through a deflection crystal in an emergency. The patternum matter storage tanks are positioned for emergency jettisoning in front of the hangar bay. A (D703/6-1B) dual impulse unit is located in the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-2B) nacelles are mounted on (D1/70-2B) support pylons towards the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



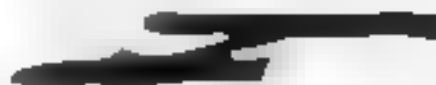
Ship Silhouettes

Total Target Area: 48867.88 m²



Top Silhouette

Area: 30892.70 m²



Port Silhouette

Area: 7808.02 m²



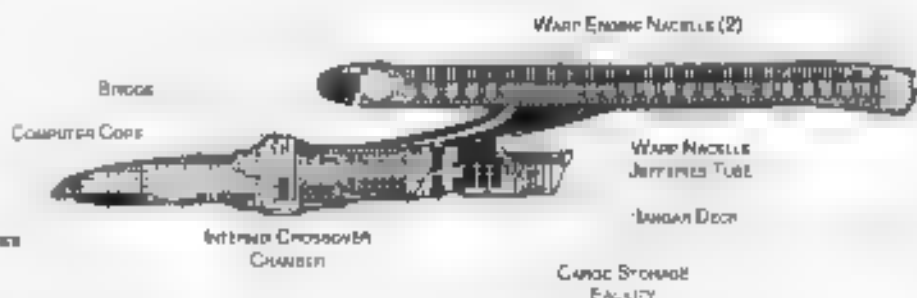
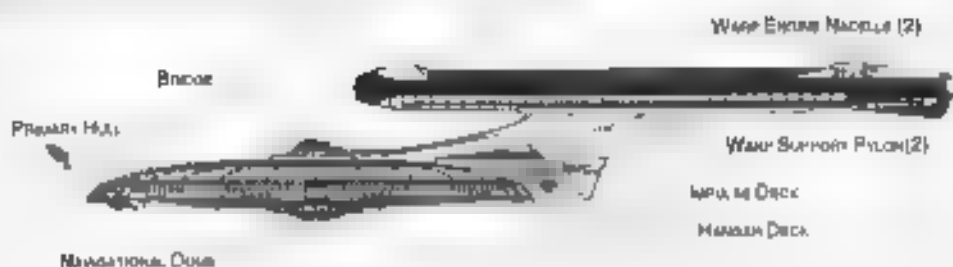
Front Silhouette

Area: 2135.15 m²



LIGHT CRUISER

ROTHWELL CRUISER



CROSS SECTION

Statistics

Classification: Light Cruiser

Category: Cruiser

Class: Rothwell

Tree: Class

Model: MK-XIIIb

Naval Construction Contract: 1407B

Number Proposed: 30

Number Constructed: 43

Number in Service: 40

Number Lost: 3

Dimensions:

Overall Dimensions (Meters):

Length: 333.48 m

Width: 177.21 m

Height: 58.10 m

Primary Hull Dimensions (Meters):

Length: 108.6 m

Width: 77.21 m

Height: 30.71 m

Secondary Hull Dimensions (Meters):

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters):

Length: 224.88 m

Width: 3.82 m

Height: 20.43 m

Displacement (Metric Tons):

Light: 14157 mt

Standard: 36483 mt

Full Load: 40732.7 mt

Performance:

Impulse Drive: Dual Unit (RP70E0-IM)

Impulse Engine Output: 1.84E+4 W

Impulse Power Index: .03

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.183 sec

0.25-0.50 Impulse: 0.264 sec

0.50-0.75 Impulse: 0.352 sec

0.75-Full Impulse: 0.440 sec

Warp Drive: 2 Nacelle Units (SW104/2-2RU)

Warp Engine Output: 8.85E+10 W

Warp Power Index: .03

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.3

Max Speed: 9.5

Destructive Speed: 9.35

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.85 sec

Warp 2 Warp 3: 0.313 sec

Warp 3 Warp 4: .83 sec

Warp 4 Warp 5: .701 sec

Warp 5 Warp 6: .818 sec

Warp 6 Warp 7: .885 sec

Warp 7 Warp 8: .522 sec

Warp 8 Warp 9: 3.607 sec

Warp 9 Warp 9.5: 8.015 sec

Warp 9.5 Warp 9.75: 9.288 sec

Warp 9.75 Warp 9.9: 9.258 sec

Survival (Years):

Standard: 11 Years

Maximum: 24 Years

Std. Ship Complement: 558

Officers: 37

Crew (Ensign Grade): 67

Troops: 141

Passengers: 83

Emergency condition 1: 1145

Medical Facilities:

Doctors: 5

Nurses: 16

Operating Rooms: 9

Beds: 42

Laboratories:

Diagnostics Total: 20

1 Person: 0

2 Person: 0

3 Person: 0

12 Person: 0

22 Person: 0

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

Bridge: 22

Radicon: 28

Trajectory:

Tow Capacity: 4.17E+08 mt

Max Range: 25E+03 km

Cargo Specification:

Standard Cargo Units: 500

Cargo Capacity: 2500 mt

Shuttlecraft Specifications:

Docking Ports:

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 36

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle: 1

Light Shuttle: 4

Standard Shuttle: 6

Heavy Shuttle: 0

Cargo Shuttle: 1

Assault Shuttle: 0

Kneller Bay: 1

Light Fighter: 4

Fighter: 4

Heavy Fighter: 3

Lifboats: 40

Turbolift (8 person): 40

Lifboat (10 person): 29

Lifboat (20 person): 2

Lifboat (30 person): 0

Cloaking Devices: 0

Range Index Value:

Planetary Survey: 0.9468

Stellar Survey: 0.9597

Short Range: 0.8584

Long Range: 0.9711

Navigation: 0.8880

Special: 0.9054

Comms: 1

Type: Daystrom Duetronic IV n

Type: Daystrom Duetronic III n

ECM Index: 0.98

Shield Rating:

Shield Index: 0.84

Shield Power: 0.05E+12 W

Refresh Rate: 3.00E+1 W

Breakdown Rate: 3.00E+1 W

Shield Dispense (Meters):

Length: 500.24 m

Width: 285.82 m

Height: 87.5 m

Weapons:

Flak/AT Power Index: 0.750

Photon Power Index: 0.47

Vessel Power Index: 0.583

Weapon Placement:

Beam (Photon) Total: 2 banks 2 each

Output: 7.50E+11 W 37E W

Range: 4.10E+06 km

Rate of Fire: 40 ppm Com

Forward Banks: 2

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhoton) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 00

Range: 2.90E+06 km

Output: 10.55 Megatons

Rate of Fire: 15 ppm

Forward Bay: 2

Rear Bay: 0

Port Bay: 0

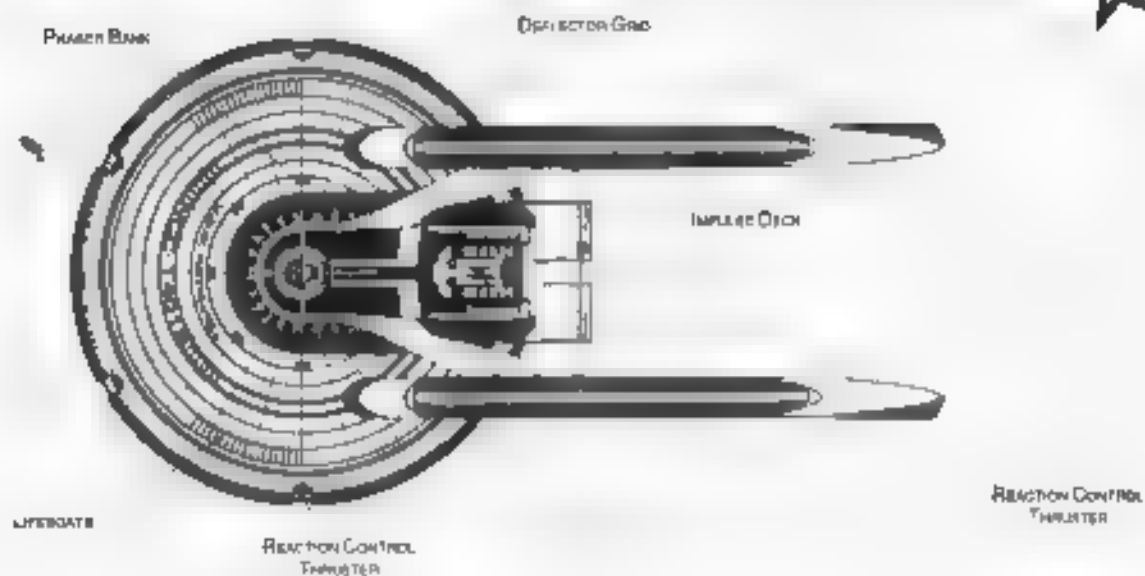
Starboard Bay: 0

Upper Bay: 0

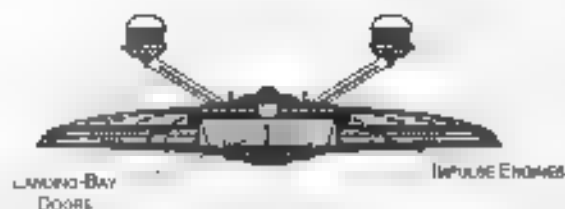
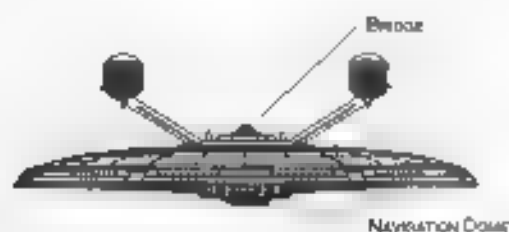
Lower Bay: 0

FEDERATION VESSEL

LIGHT CRUISER

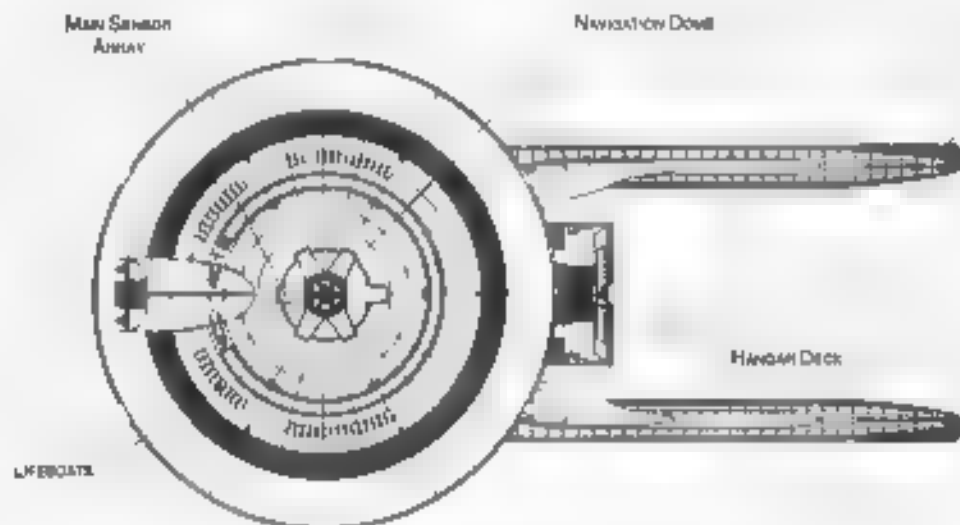


TOP PROFILE

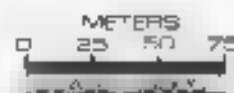


FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





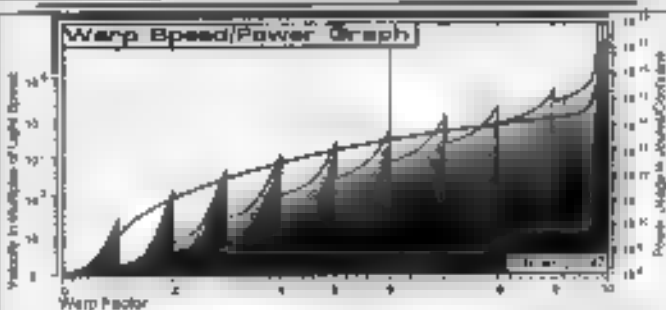
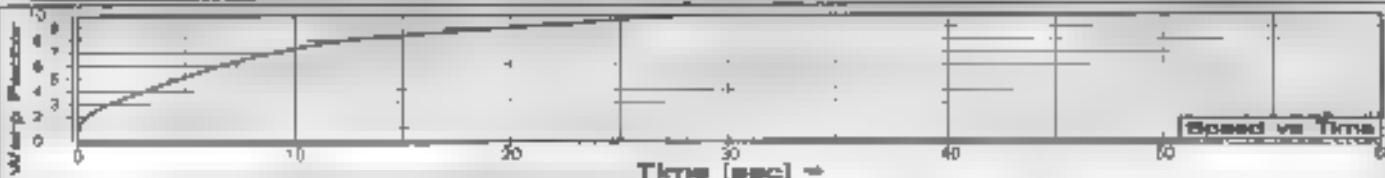
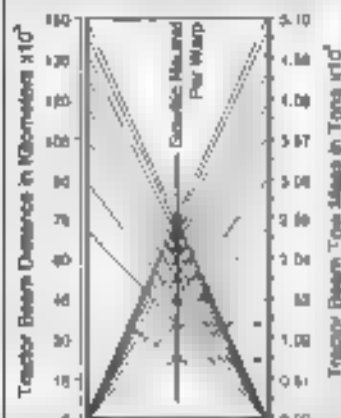
Ship Names

THE FOLLOWING SHIPS OF THE MK XII₂ CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2287:

[illegible][illegible][illegible][illegible]

Tractor Beam Specifications

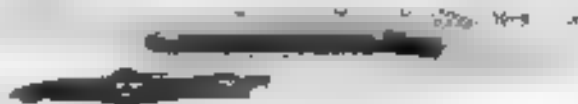
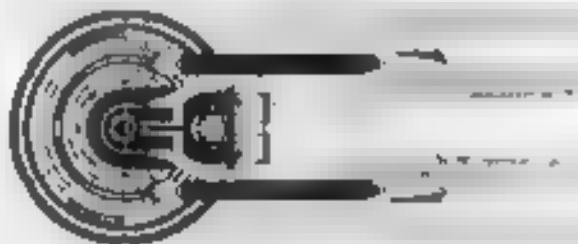
Primary Tracker Beam Load Calculation



Field Length 884.81m
Field Width 268.05m
Field Height 108.67m



Front Warp Field Profile
Cross Section Area: 10000.44 m²

**Port Warp Field Profile**
 Cross Section Area 61211.87 m²

Top Warp Field Profile
Cross Section Area: 137888.00 mm²

WARP FIELDS

SAM3 04:02:05:04

STARFLEET REFERENCE MANUAL

1. Introduction

PERFECTION

TACTICAL CRUISER



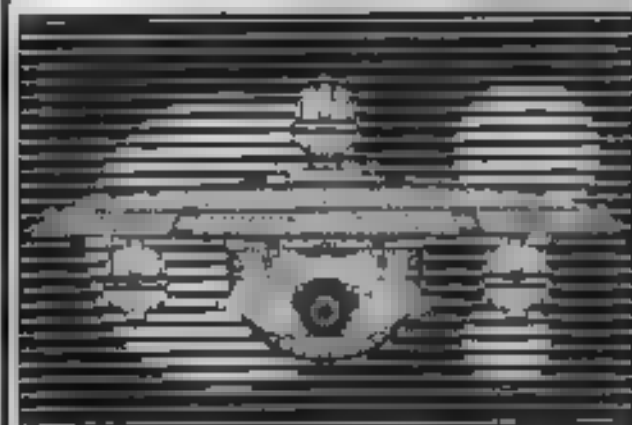
General Information

Specific Role: The Tactical Cruiser is an agile starship capable of massive destruction and is often used to display a show of force in troubled areas. It is equipped with extremely powerful shields and sensors as well as extensive ECM systems. During military operations the Tactical Cruiser is used for point assault and main line defense.

Physical Description: The (BS20/C T8) bridge is centered on top of the (PI 290/C E5) extended primary hull and the (JN5/6N) navigation dome is centered underneath. Five (TP2/60-2C) phaser banks are mounted equally on the top and bottom of the primary hull. A two piece integral (DU 210-44F) connecting dorsal makes the primary hull to the (SI 140/C T8) secondary hull. Two (PI12/50-20G) photon torpedo bays are located for nose aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (HP1/30-1C) phasers are mounted underneath as well. Just above the forward photon bay is a (TH5/2-40) tractor beam emitter and below is the (JN10/T18) main navigation deflector. Just above the rear photon bay is a large cargo hangar bay. The (M100/42-45) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (RP75/T8 IR) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-10KT) nacelles are supported by (DU 70-2T) support pylons mounted to the back of the secondary hull and a third warp nacelle on top is attached just forward of the main impulse drive by a (DU 50-12T) support pylon. In the event of an emergency the primary and secondary hulls can separate each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem

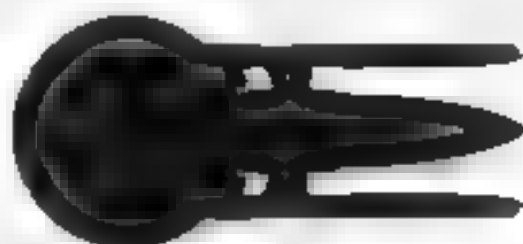
CURNOW CLASS



TACTICAL CRUISER

Ship Silhouettes

Total Target Area 66580.18 m²



Top Silhouette

Area 44966.94 m²



Port Silhouette

Area 19877.81 m²



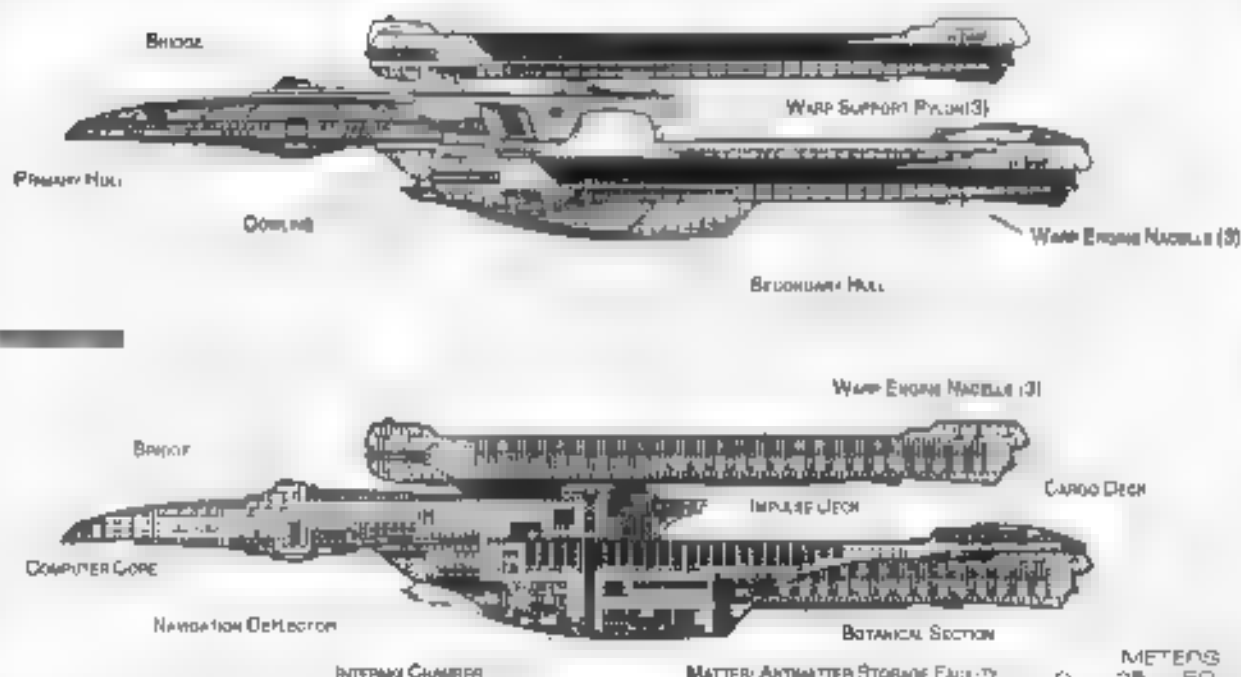
Front Silhouette

Area 9923.83 m²



TACTICAL CRUISER

CLASSIFICATION: T-055



CROSS SECTION

Statistics

Classification: Tactical Cruiser
Category: Cruiser
Class: Curlew
Type: Class
Model: MK XXXVII
Year Construction Complete: 7000B
Number Produced: 5
Number Constructed: 89
Number in Service: 68
Number Lost:

Dimensions:

Overall Dimensions (Meters)

Length: 102.87 m
Width: 27.2 m
Height: 84.3 m

Primary Hull Dimensions (Meters)

Length: 245.06 m
Width: 77.2 m
Height: 30.7 m

Secondary Hull Dimensions (Meters)

Length: 27.7 m
Width: 88.80 m
Height: 43.93 m

Warp Unit Dimensions (Meters)

Length: 25.20 m
Width: 19.89 m
Height: 24.12 m

Displacement (Metric Tons)

Light: 444752 mt
Standard: 478504 mt
Full Load: 63 925 mt

Propulsion: 184

Impulse Units: Dual Unit (RUF3T4-IR)

Impulse Engine Output: 88E+14 W

Impulse Power Index: 44

Max Cruising C:

Acceleration Rate:

0.00-0.25 Impulse: 0.2 4 sec
0.25-0.50 Impulse: 0.336 sec
0.50-0.75 Impulse: 0.440 sec
0.75-Full Impulse: 0.56 sec

Warp Units: 2 Nacelle Units (SW104/2-1DR)

Warp Engine Output: 80E+18 W

Warp Power Index: 44

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.6

Max Speed: 8.95

Destructive Speed: 8.8

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0 40 sec

Warp 3 Warp 4: 0 224 sec

Warp 5 Warp 6: 0 84 sec

Warp 7 Warp 8: 2 17 sec

Warp 9 Warp 10: 1 307 sec

Warp 11 Warp 12: 1 408 sec

Warp 13 Warp 14: 1 808 sec

Warp 15 Warp 16: 2 582 sec

Warp 17 Warp 18: 2 5 sec

Warp 19 Warp 20: 8 648 sec

Warp 21 Warp 22: 3 720 sec

Shuttles (Yachts)

Standard: 6 Yachts

Maximum: 24 Yachts

Std. Ships (Commissioned): 7000

Officers: 18

Crew (Ensign Grade): 780

Troops: 18

Passengers: 48

Emergency conditions: + 383

Medical Facilities:

Doctors: 12

Nurses: 27

Operating Rooms: 8

Beds: 63

Laboratories: 34

Transporters Total: 34

1 Person: 0

2 Person: 0

6 Person: 10

12 Person: 11

22 Person: 10

Small Cargo: 7

Medium Cargo: 7

Large Cargo: 0

Super Cargo: 0

Bridge: 56

Replicators: 80

Tractor Beams:

Tow Capacity: 8 88E+08 mt

Max Range: 1 65E 06 km

Cargo Specifications:

Standard Cargo Units: 1252

Cargo Capacity: 62000 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 78

Work Room: 5

Travel Pods: 5

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 18

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 8

Killer Boats

Light Fighter: 10

Fighter: 11

Heavy Fighter: 7

Lifboats: 10

Turbolift (8 person): 48

Lifboat (10 person): 10

Lifboat (20 person): 13

Lifboat (30 person): 7

Clothing Devices: 0

Sensor Index Values:

Planetary Survey: 8016

Stellar Survey: 3200

Short Range: 1 4600

Long Range: 2000

Navigation: 2 58

Special: 2 8388

Communications: 2

Type: Daystrom Deutronic IV p

Type: Daystrom Deutronic III m

ECM Index: 1 21

Shield Rating:

Shield Index: 33

Shield Power: 38E+12 W

Refresh Rate: 3.92E+ W

Breakdown Rate: 4 71E+11 W

Shield Dimensions (Meters)

Length: 588.3 m

Width: 263.82 m

Height: 128.47 m

Weapons:

Photon Power Index: 000

Photon Power Index: 1 887

Vocal Power Index: 333

Weapon Placement:

Banks (Phasers) Total: 8 banks 2 each

Output: 7 40F W 3 7E W

Range: 4 10E+15 km

Rate of Fire: 40 ppm Cons

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 200

Range: 2 90E+08 km

Output: 0.55 Megatons

Rate of Fire: 15 ppm

Forward Bay: 2

Rear Bay: 2

Port Bay: 0

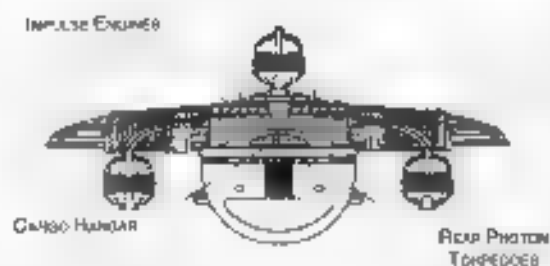
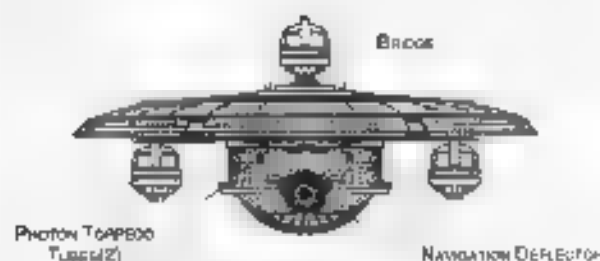
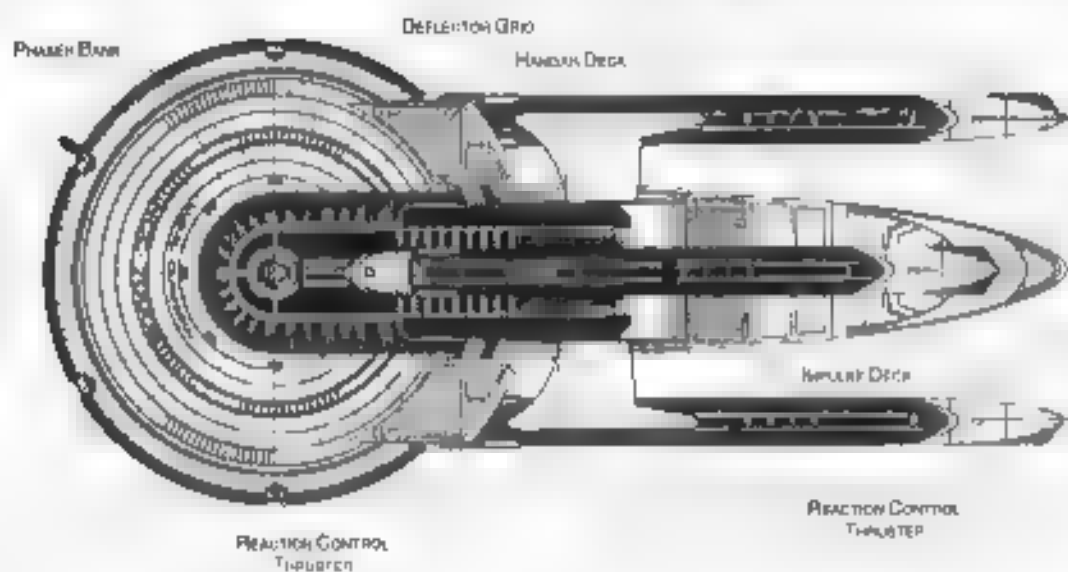
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

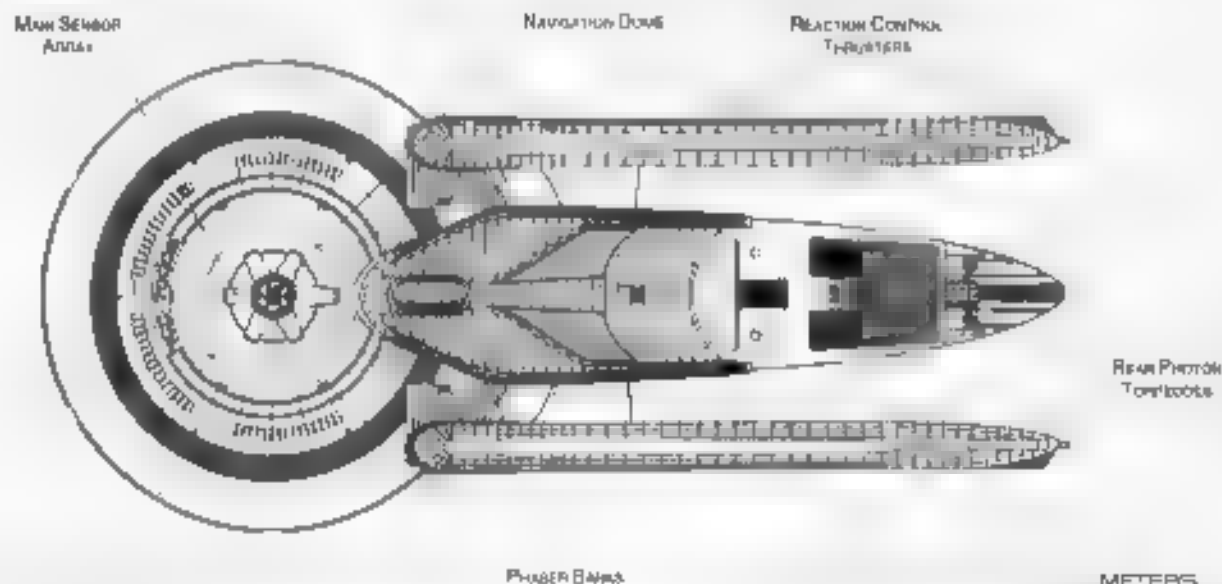
FEDERATION WEBSITE

TACTICAL CRUISER



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS
0 25 50 75
SCALE 1:30,000

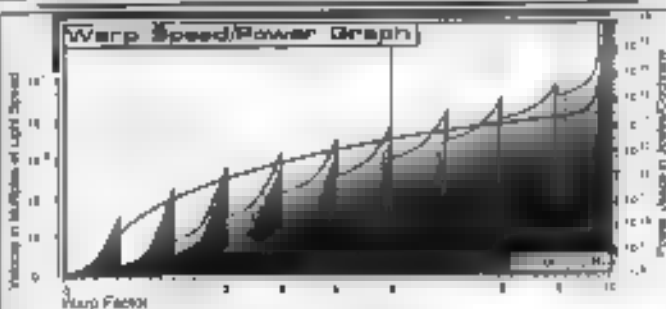
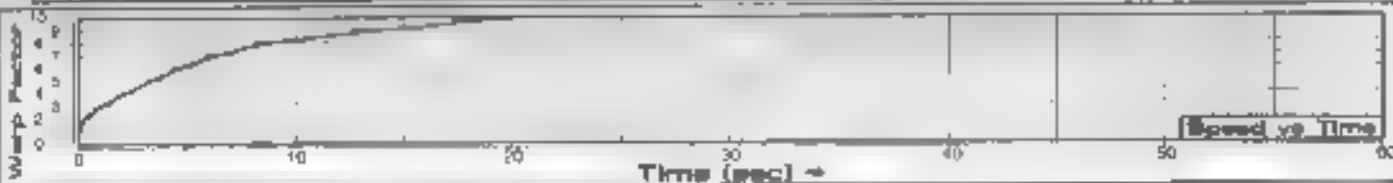
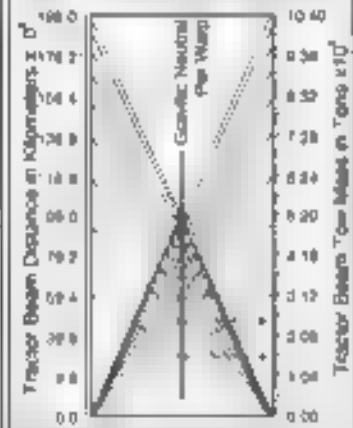


CURRENT CLASS

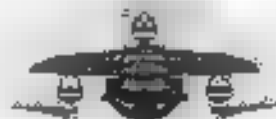
Tractor Beam Specifications

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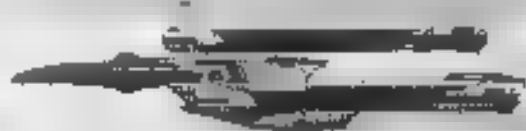
CLARK, RUF. LOST IN THE LINE OF DUTY. THROTTLED A NATION RENEGADE WITH A



Field Length: 827.00mm
Field Width: 276.30mm
Field Height: 180.00mm



Front Werp Field Profile
 Gross Seabed Area 21421.50 m²

Port Warp Field Profile
Drain Basin Area 22203.42 m²

Top Warp Field Profile
Cross Section Area: 185564.86 cm²

WARP FIELDS

SRM3 04:02:06:04

STARFLEET REFERENCE MANUAL

FEDERATION MESSES

THROUGH DECK CRUISER



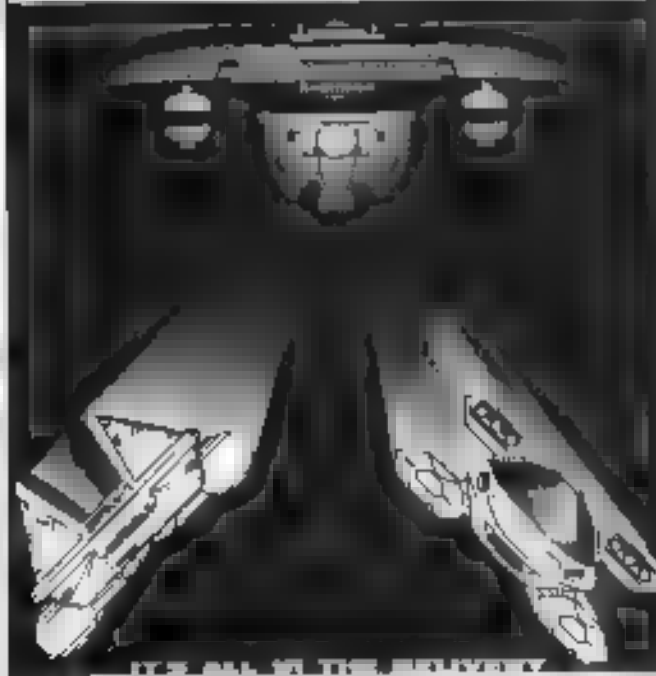
General Information

Specific Role: The Through Deck Cruiser carries six complete fighter wings and several other assault craft. Although lightly armed, its support craft can handle planetary assault, system defense and ship to ship combat. This vessel usually patrols treaty boundaries and shipping lanes.

Physical Description: The TDS20/C-NR bridge is centered on top of the IPM310/C-C5 extended primary hull and the DNR6/0N1 navigational cluster sits atop the secondary hull. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (LJ/200-44P) connecting dorsal mates the primary hull to the SLS0/C-041 secondary hull. Two (LJ2-50-20G) photon torpedo bays are located for anti-air and two (SP2-60-2C) phaser banks are located above and below the hangar bay. Two banks of (DP1/30-2C) phasers are located underneath as well. Between the forward photon tubes is the DN10/A-8 main navigation deflector. At the rear photon bay is a large cargo bay. The secondary hull contains a single complete fighter bay with access on all four sides and one door hanging down. The (MBC/28-4K) access elevator runs vertically from the deflection crystal down to the secondary hull, however the elevator is positioned through the deflection crystal in an emergency. The matter/antimatter storage tanks are positioned for emergency ejection at the rear of the primary hull. A TRF70E/8-K dual impulse reactor is located in the rear of the primary hull provides sub light propulsion. For warp propulsion two (SW-04-2-12K1) nacelles are supported by (DL/70-12C) support pylons mounted to the back of the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

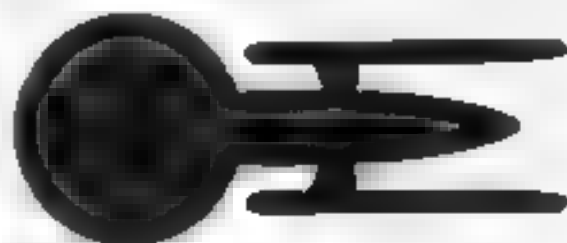
Class Emblem

C E M E N C E A U C L A S S
T H R O U G H D E C K C R U I S E R



Ship Silhouettes

Total Target Area 64319.51 m²



Top Silhouette

Area 44168.97 m²



Port Silhouette

Area 14488.18 m²



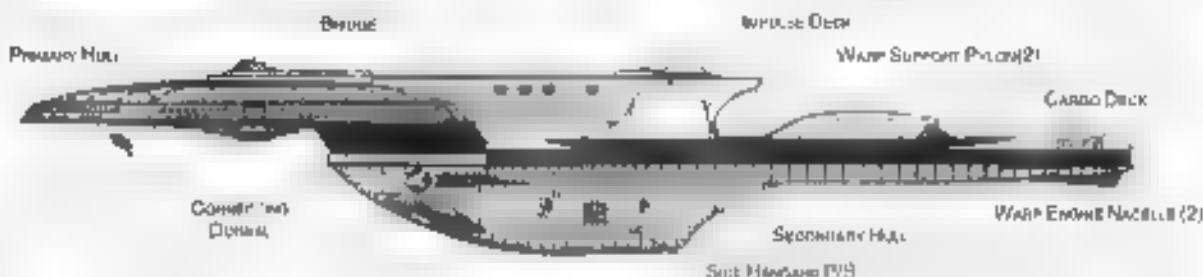
Front Silhouette

Area 6719.88 m²

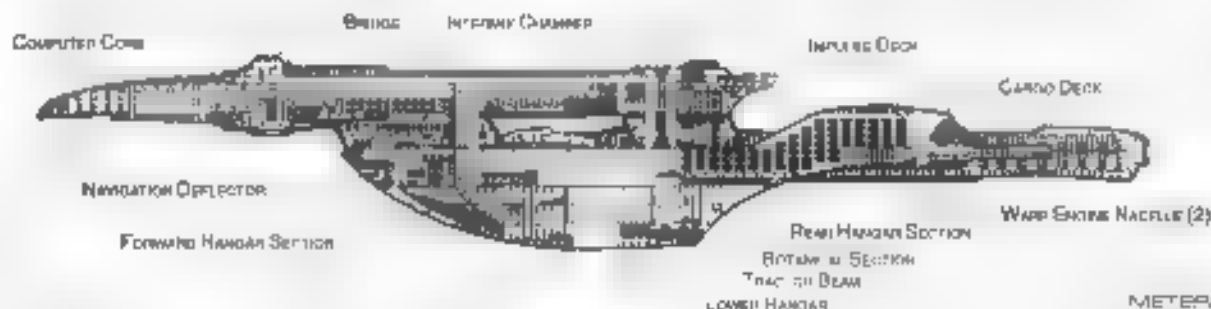


THROUGH DECK CRUISER

FEDERATION CLASS



PORT PROFILE



CROSS SECTION



Statistics

Classification: Through Deck Cruiser
Category: Carrier
Class: Federation
Type: Class
Model: MK-XXRs

Naval Construction Contract: 1977B

Number Proposed: 35

Number Constructed: 38

Number in Service: 34

Number Lost:

Dimensions

Overall Dimensions (Meters)

Length: 424.06 m

Width: 177.2 m

Height: 73.81 m

Primary Hull Dimensions (Meters)

Length: 287.5 m

Width: 177.8 m

Height: 50.71 m

Secondary Hull Dimensions (Meters)

Length: 270.74 m

Width: 50.85 m

Height: 14.27 m

Warp Unit Dimensions (Meters)

Length: 247.06 m

Width: 7.70 m

Height: 20.73 m

Displacement (Metric Tons)

Light: 4150.0 m

Standard: 44087 m

Full Load: 406028 m

Performance:

Impulse Units: Dual Unit (IRF706/8-1R)

Impulse Engine Output: 84E+14 W

Impulse Power Index: 0.85

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.206 sec

0.25-0.50 Impulse: 0.323 sec

0.50-0.75 Impulse: 0.431 sec

0.75-Full Impulse: 0.539 sec

Warp Unit: 2 Nuclei Units (RW104/2-12R)

Warp Engine Output: 04E+18 W

Warp Power Index: 2.65

Options: Speed: 5
Max. Safe Cruising: 7
Emergency Speed: 8.3
Max. Speed: 9.5
Destructive Speed: 8.05

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.227 sec

Warp 2 Warp 3: 0.364 sec

Warp 3 Warp 4: 0.75 sec

Warp 4 Warp 5: 0.976 sec

Warp 5 Warp 6: 2.4 sec

Warp 6 Warp 7: 2.285 sec

Warp 7 Warp 8: 2.931 sec

Warp 8 Warp 9: 4.156 sec

Warp 9 Warp 10: 9.32 sec

Warp 10 Warp 11: 0.700 sec

Warp 11 Warp 12: 22.303 sec

Duration (Years)

Standard: 11 Years

Maximum: 24 Years

Std. Ship Complement: 1092

Officer: 100

Crew (Ensign Grade): 814

Troops: 114

Passengers: 120

Emergency condition: + 1417

Medical Facilities:

Doctors: 4

Nurses: 27

Operating Rooms: 8

Beds: 63

Laboratories: 16

Transports: Total: 27

1 Person: 0

2 Person: 0

3 Person: 0

12 Person: 0

22 Person: 10

Small Cargo: 4

Medium Cargo: 3

Large Cargo: 0

Super Cargo: 0

Brigs: 4
Replicators: 34
Internal Decks:
Tow Capacity: 8.8E+06 m
Max Range: 7.2E+04 km

Cargo Specifications:

Standard Cargo Bays: 838

Cargo Capacity: 45900 m

Shuttlecraft Specifications:

Docking Ports: 8

Shuttlecraft Bays Total: 3

Small Bay

Medium Bay: 0

Large Bay: 2

Super Bay: 0

Shuttlecraft Standard: 28

Work Bays: 8

Travel Pods: 7

Aquatic Shuttle: 5

Light Shuttle: 4

Standard Shuttle: 26

Heavy Shuttle: 0

Cargo Shuttle: 4

Assault Shuttle: 0

Killer Bays: 14

Light Fighter: 4

Fighter: 14

Heavy Fighter: 12

Lifeboats: 14

Turbolift (8 person): 31

Lifeboat (10 person): 23

Lifeboat (20 person): 10

Lifeboat (30 person): 1

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.8670

Minial Survey: 0.8608

Short Range: 0.9534

Long Range: 0.8754

Navigation: 1108

Speed: 9397

Computers: 4

Type: Deystrom Duotronic IV.4

Type: Deystrom Duotronic III.6

ECM Index: 1.12

Shield Rating:

Shield Index: 80

Shieldoff Power: 80E+2 W

Refresh Rate: 5.11E+1 W

Breakdown Rate: 5.3E+11 W

Shield Dimensions (Meters)

Length: 606.98 m

Width: 265.82 m

Height: 110.72 m

Weapons:

Phase Power Index: 000

Photon Power Index: 0.667

Vessel Power Index: 0.833

Weapon Placement

Barr (Phasers) Total: 16 banks 2 each

Output: 7.50E+1 W 3.7E W

Range: 4.10E+06 km

Rate of Fire: 40 ppm Cont

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Disruptors) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 80

Range: 3.80E+05 km

Output: 10-55 Megatons

Rate of Fire: 5 spm

Forward Bays: 2

Rear Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

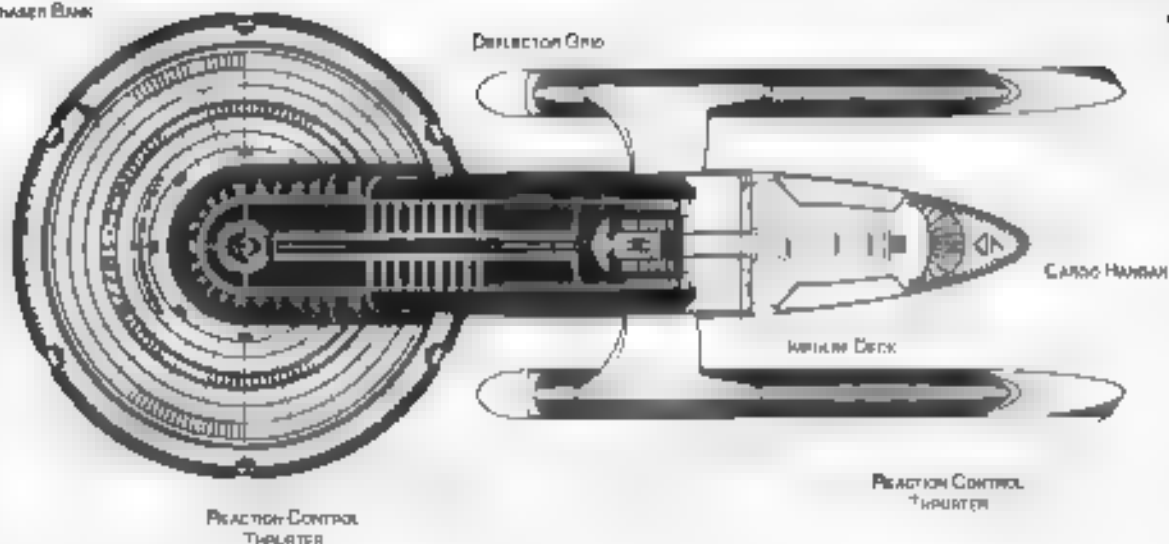
FEDERATION CLASS

THROUGH DECK CRUISER



PHASER BANK

DEFLECTOR GRID



TOP PROFILE

BRIDGE

IMPULSE ENGINES



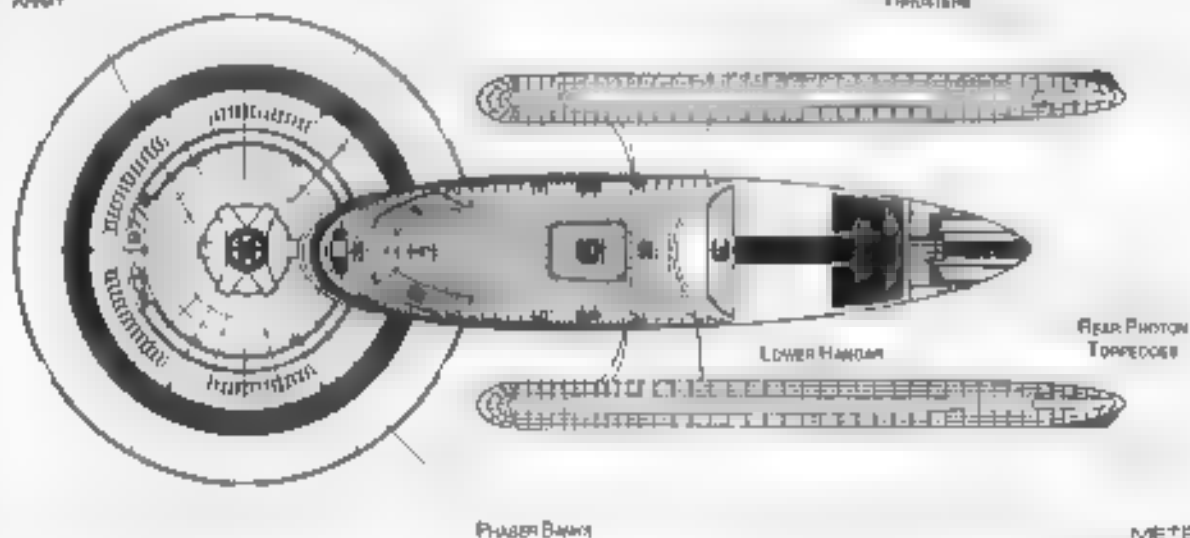
FRONT PROFILE

REAR PROFILE

MAIN SENSOR ARRAY

NAVIGATION DOMES

REACTION CONTROL THRUSTERS



BOTTOM PROFILE





Ship Names

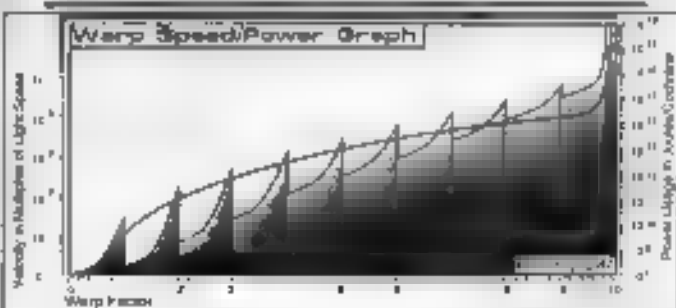
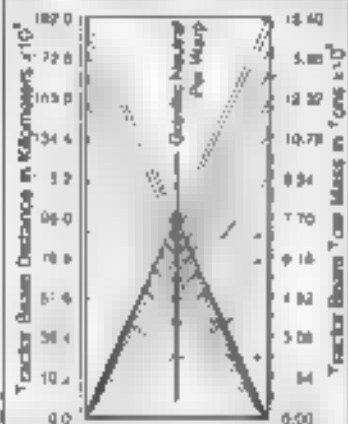
THE FOLLOWING SHIPS OF THE MK XXII¹ CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2888 1

[illegible]

CLARK, RAY, LOST IN THE LINE OF DUTY. PROGRAMED. ALL NAMES PROGRAMED WITH U.S.A.

Tractor Beam Specifications

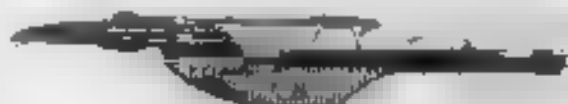
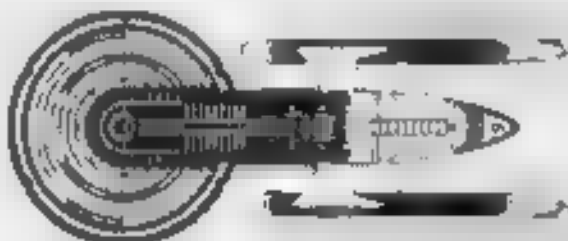
Primary Tractor Beam Load Calculator



Field Length 885.11m
Field Width 275.34m
Field Height 132.73m



Front Warp Field Profile
Cross Section Area 25,399.05 m²

Port Warp Field Profile
Cross Section Area 787±1.13 m²

Top Warp Field Profile
Cross Section Area 153817.00 m²

WARP FIELDS

SAM3 04:02:07:04

STAFFLEET REFERENCE MANUAL

CLEMENCEAU CLASS

FEDERATION VESSEL

DESTROYER



General Information

Specific Role: The Loki class destroyer with a small subunit is an effective fighting ship. The combination of several mega phasers coupled with a high density dual warp engine system make this vessel quite ferocious. During military operations, the Destroyer is used for point assault and hit and run defense. This design is based on the Jush-in Class Command Cruiser.

Physical Description: The (BS18 C DR) bridge is centered on top of the (P1250, D-L5) primary hull and the (DN8 EN) navigation dome is centered underneath. The vessel is equipped with additional sensors, hull reinforcements and a medium hangar deck facing to the rear. Three (MP2/80-20) phaser banks are mounted radially on the top and bottom of the primary hull. A pair of (MP2/80-20) mega phasers are mounted on top of the hangar bay and one is mounted on the rear of warp nacelle. The primary hull is joined to the unique dual warp nacelle by a (D-1/80-40) connecting dome. Two (P12/50-200) photon torpedo launchers are located at the base of the connecting dome. The (M70/28-4E) intermix chamber runs vertically from the bottom of the dome down to the dual warp nacelle where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned between the field coils for emergency jettisoning. To the rear of the primary hull are (P212b/4 IT) dual impulse thrusters which are used for auxiliary power and sub-light propulsion. The vessel's warp fields are generated by A-SW64, 1-4RU dual inline warp nacelles. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area: 38185.38 m²



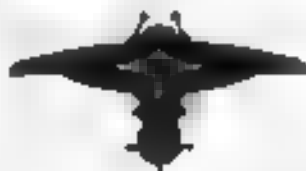
Top Silhouette

Area: 28140.38 m²



Port Silhouette

Area: 10048.81 m²



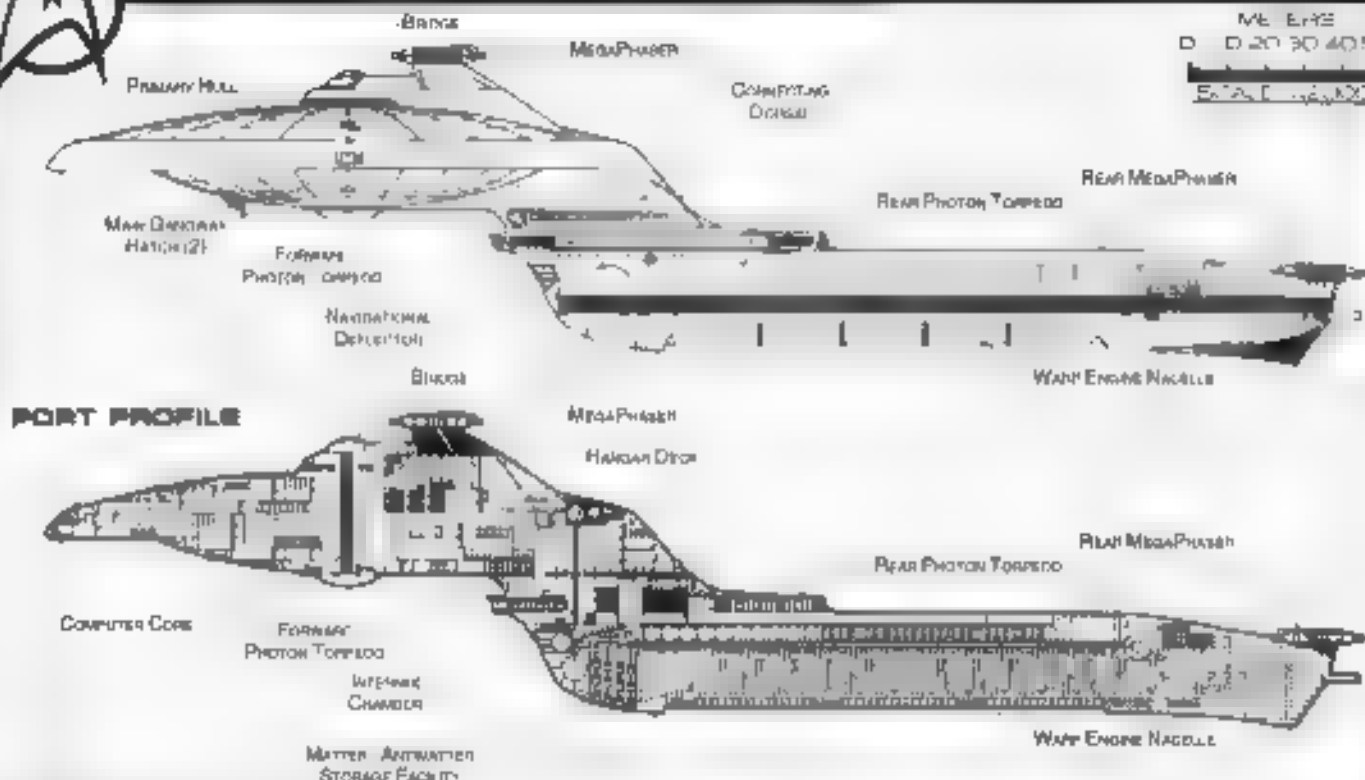
Front Silhouette

Area: 10028.22 m²



DESTROYER

LOKI CLASS



CROSS SECTION

Statistics

Classification: Destroyer

Category: Destroyer

Class: LOKI

Type: Class

Model: MK-VIII

Star Construction Contract: 5028

Number Produced: 93

Number Constructed: 78

Number in Service: 7

Number Lost: 0

Dimensions:

Overall Dimensions (Meters)

Length: 94.26 m

Width: 59.20 m

Height: 23.30 m

Primary Hull Dimensions (Meters)

Length: 170.82 m

Width: 59.20 m

Height: 20.28 m

Secondary Hull Dimensions (Meters)

Length: 94.26 m

Width: 59.20 m

Height: 23.30 m

Warp Unit Dimensions (Meters)

Length: 2.112 m

Width: 1.112 m

Height: 28.11 m

Displacement (Metric Tons)

Light: 2,345,111 mt

Standard: 2,49,778 mt

Full Load: 2,78,783 mt

Performance: (mt)

Impulse Delta: Dual Unit HP2 22M-7

Impulse Engine Output: 84E+14 W

Impulse Power Index: 39

Max Cruising: 6

Acceleration Rate:

0.00-0.25 Impulse: 0.4 sec

0.25-0.50 Impulse: 0.80 sec

0.50-0.75 Impulse: 0.240 sec

0.75-Full Impulse: 0.30 sec

Warp Units: Nacelle Infs (SW6-41-4RUI)

Warp Engine Output: 8.07E+5 W

Warp Power Index: 39

Optimum Speed: 5

Max. Safe Cruising: 7

Emergency Speed: 0.45

Max Speed: 82

Destruction Speed: 0.45

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 0.145 sec

Warp 2 Warp 3: 0.232 sec

Warp 3 Warp 4: 0.877 sec

Warp 4 Warp 5: 28 sec

Warp 5 Warp 6: 1.348 sec

Warp 6 Warp 7: 1.457 sec

Warp 7 Warp 8: 1.870 sec

Warp 8 Warp 9: 2.874 sec

Warp 9 Warp 10: 5.043 sec

Warp 10 Warp 11: 5.885 sec

Warp 11 Warp 12: 4.277 sec

Duration (Years)

Standard: 5 Years

Maximum: 20 Years

Std. Ship Complement: 660

Officers: 50

Crew (Ensign Grade): 460

Troops: 20

Passengers: 57

Emergency condition: +746

Medical Facilities:

Doctors: 8

Nurses: 4

Operating Rooms: 5

Beds: 14

Laboratories: 10

Transporters: 13

1 Person: 0

2 Person: 0

3 Person: 5

4 Person: 0

5 Person: 5

Small Cargo: 2

Medium Cargo:

Large Cargo: 0

Super Cargo: 0

Bridge: 27

Replicators: 8

Internal Beams:

Tow Capacity: 4.25E+05 mt

Max Range: 0.8E+05 km

Cargo Specifications:

Standard Cargo Units: 38

Cargo Capacity: 5800 mt

Shuttlecraft Specifications:

Decking Force

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 32

Work Boats: 4

Troop Pods: 2

Aquatic Shuttle:

Light Shuttle: 1

Standard Shuttle: 8

Heavy Shuttle: 4

Cargo Shuttle:

Assault Shuttle: 2

Killer Boats: 1

Light Fighter: 4

Fighter: 4

Heavy Fighter: 8

Lifboats: 0

Turbolift (6 person): 26

Lifboat (10 person): 8

Lifboat (20 person): 7

Lifboat (30 person): 0

Clothing Devices: 0

Sensor Index Values:

Planetary Survey: 7136

Star Map Survey: 11084

Short Range: 3325

Long Range: 1248

Navigation: 3082

Special: 8333

Comms: 2

Type: Daystrom Distronic IV p

Type: Daystrom Distronic II w

ECM Index: 1.12

Shield Rating:

Shield Index: 0.75

Holdoff Power: 8.09E+11 W

Refresh Rate: 2.29E+11 W

Breakdown Rate: 2.86E+11 W

Shield Dimensions (Meters)

Length: 523.80 m

Width: 238.60 m

Height: 24.05 m

Weapons:

Phase Power Index: 000

Photon Power Index: 0.729

Vessel Power Index: 0.885

Weapon Placement:

Beam (Phasers) Total: 6 Banks 2 each

Output: 7.50E+11 W 3 TE+1 W

Range: 4.10E+05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 26

Output: 1.0E+12 W 1.0E+12 W

Range: 50E+05 km

Rate of Fire: 20 ppm Cont

Forward-Rear Banks: 26

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 5 Bays

Stock: 00

Range: 2.90E+05 km

Output: 10-65 Megatons

Rate of Fire: 16 ppm

Forward Bay: 3

Rear Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

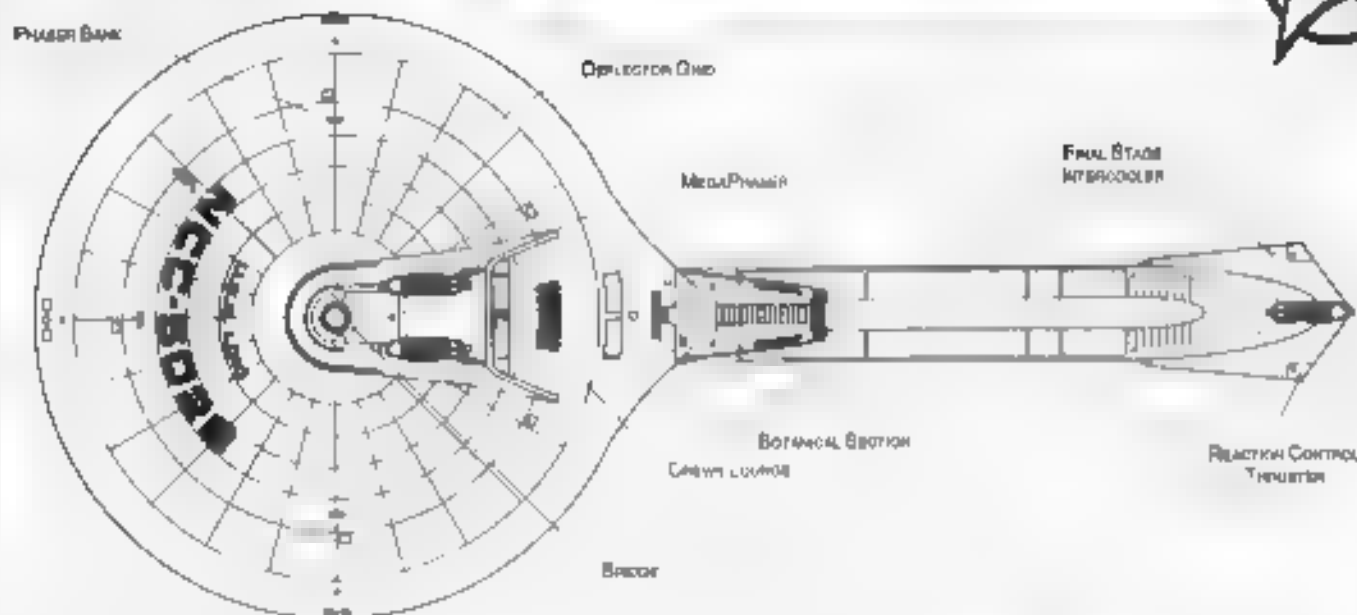
Lower Bay: 0

FEDERATION VESSEL

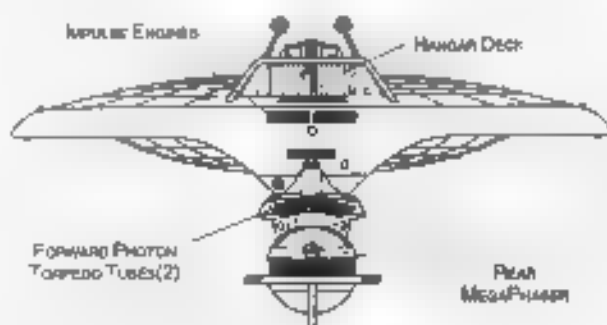
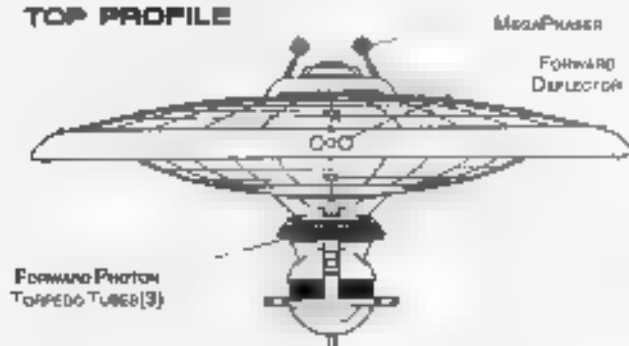
DESTROYER



USS-3000

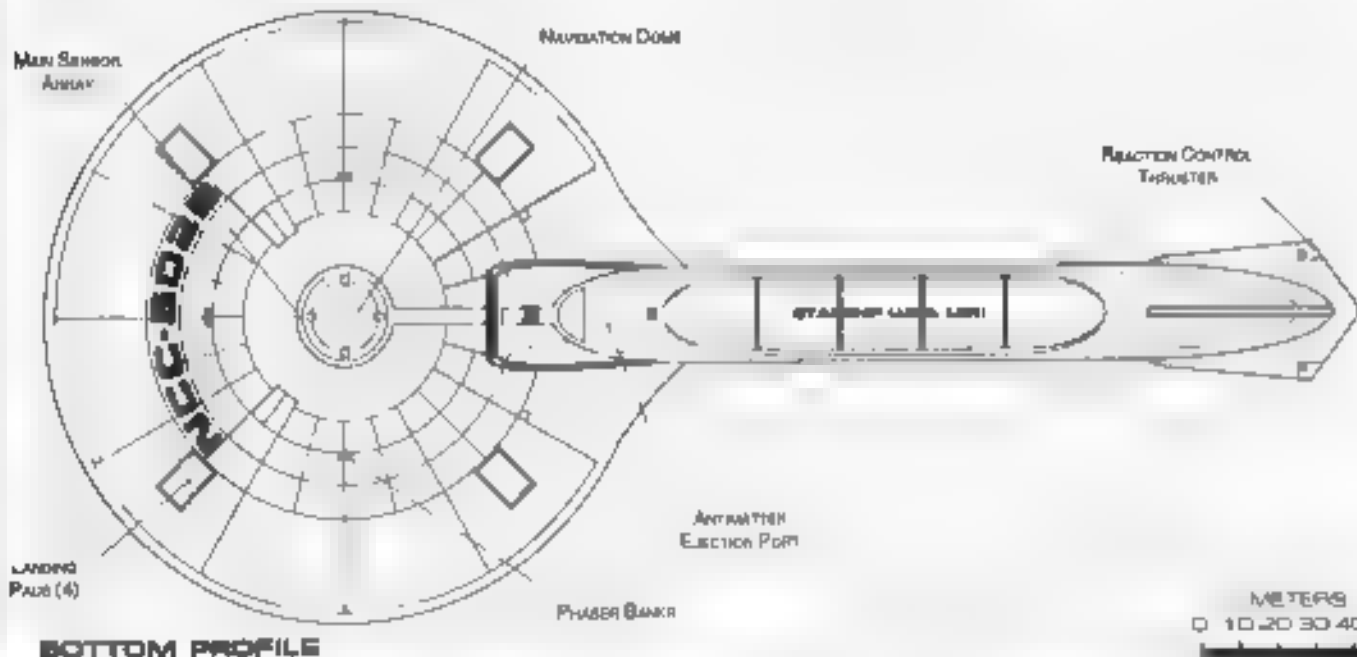


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50

FEDERATION VESSEL

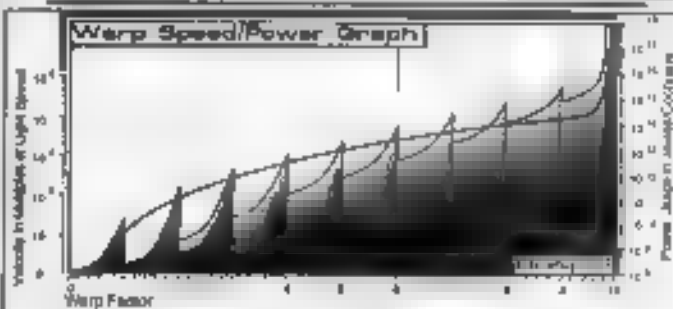
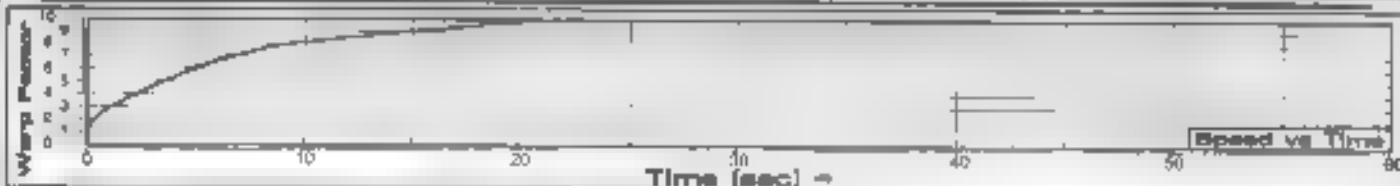
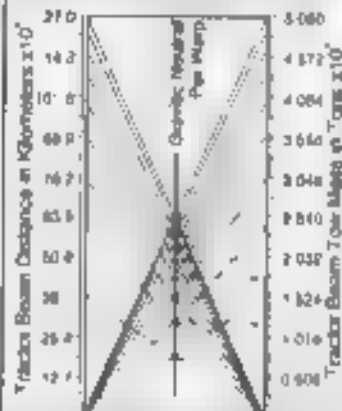
Ship Names

THE FOLLOWING SHIPS OF THE MK-VIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2200.5

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Tractor Beam Specifications

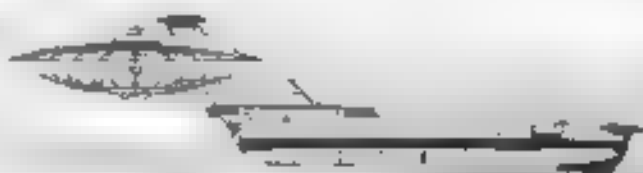
Primary 7 motor Beam Load Calculations



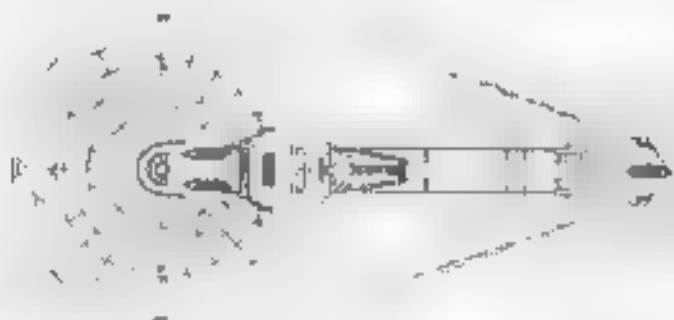
Field Length 659.46m
Field Width 160.84m
Field Height 121.78m



Front Warp Field Profile



Fort Warp Field Profile
 Draw Basin Area 44580.81 m²



Top Warp Field Profile
Cross Section Area 76626.84 m²

WARP FIELDS

SAM3 04:02:08:04

STARFLEET REFERENCE MANUAL

FRIGATE



General Information

Specific Role: Exhaustive research of Federation involvement in peace keeping duties led to the development of the Frigate, a fighting ship primarily used to transport troops and fighter craft into battle. The Frigate's small scout package presents a minimal silhouette target area to enemy vessels. Three Mega-plasma's powered directly off of the internal chamber provide this vessel with destroyer strength fire power. The Frigate is equipped with a medium hangar bay designed to launch and maintain two full wings of fighter craft. Troops, doubling as relief maintenance crew, are carried aboard at all times and can use either assault shuttles or combat transporters to reach planetary engagements.

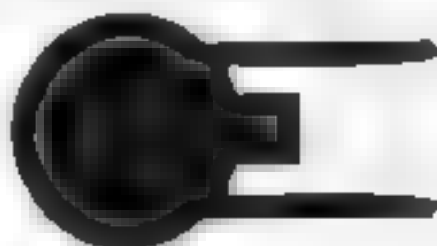
Physical Description: The (HS20/C-FH) bridge is centered on top of the (PI 290/C LB) primary hull and the (JN8/6N) navigational dome is centered underneath. Five (H2/60 2C) plasma banks are mounted radially on the top and six are mounted on bottom of the primary hull. A (PH2/50 20C) photon torpedo bay is mounted underneath the front of the hull. A large hangar bay extends from the rear underneath the impulse engines. The (MA0/2B 4E) internal chamber runs vertically from the collection crystal down to the small secondary hull where an ejection pore allows the core to be jettisoned downward in an emergency. The matter antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (RF70E 8-K) dual impulse jet is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW M/2 2RL) nacelles are mounted on (DC/60-8N) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 48124.88 m²



Top Silhouette
Area 32589.48 m²



Port Silhouette
Area 3809.23 m²



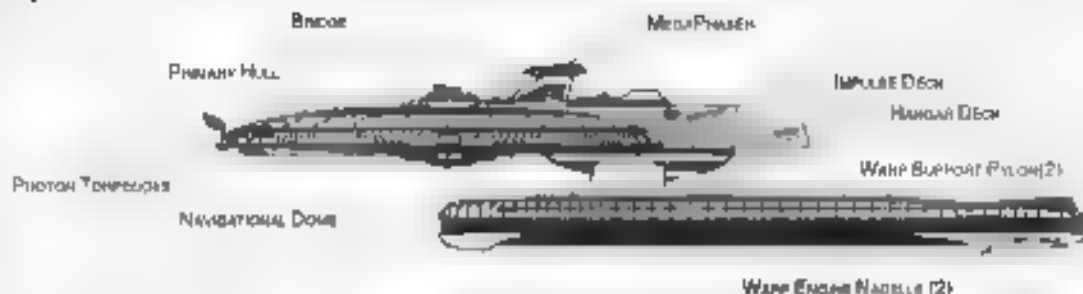
Front Silhouette
Area 3837.87 m²



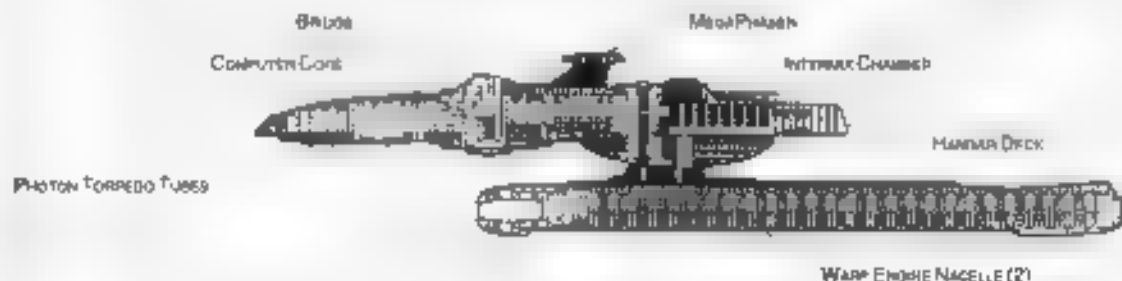
FRIGATE

LEAVENWORTH CLASS

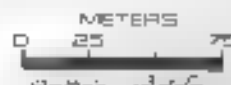
FEDERATION VESSEL



PORT PROFILE



CROSS SECTION



Statistics

Classification: Frigate
Category: Frigate
Class: Leavenworth
Type: Class
Model: MK-X00a
Kaval Construction Contract: 1901B
Number Produced: 85
Number Constructed: 71
Number in Service: 68
Number Lost: 3

Dimensions:

Overall Dimensions (Meters)
Length: 332.44 m
Width: 77.21 m
Height: 70.29 m
Primary Hull Dimensions (Meters)
Length: 228.08 m
Width: 77.21 m
Height: 30.7 m

Secondary Hull Dimensions (Meters)
Length: N/A m
Width: N/A m
Height: N/A m

Warp Unit Dimensions (Meters)
Length: 24.08 m
Width: 17.70 m
Height: 20.33 m

Displacement (Metric Tons)

Light: 266000 mt
Standard: 287000 mt
Full Load: 32480 mt

Performance:

Impulse Drive: Dual Dalt (IRFDB-IR)
Impulse Engine Output: 64E+4 W
Impulse Power Index: 37
Max Cruising: C
Acceleration Rate:
0.00-0.25 Impulse: 0.132 sec
0.25-0.50 Impulse: 0.208 sec
0.50-0.75 Impulse: 0.278 sec
0.75-Full Impulse: 0.347 sec
Warp Drive: 2 Nacelle Units (SW104Z-12RU)
Warp Engine Output: 04E+18 W
Warp Power Index: 37

Optimum Speed: 5
Max Safe Cruising: 7
Emergency Speed: 8.45
Max Speed: 8.5
Destructive Speed: 9.4
Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.147 sec
Warp 2 Warp 3: 0.238 sec
Warp 3 Warp 4: 0.667 sec
Warp 4 Warp 5: 1.275 sec
Warp 5 Warp 6: 1.63 sec
Warp 6 Warp 7: 1.470 sec
Warp 7 Warp 8: 1.80 sec
Warp 8 Warp 9: 2.704 sec
Warp 9 Warp 9.5: 6.010 sec
Warp 9.5 Warp 9.75: 8.883 sec
Warp 9.75 Warp 9.9: 4.438

Duration (Years)

Standard: 0 Years
Maximum: 24 Years

Officer Complement: 848

Officer: 51
Crew (Ensign Grade): 442
Troop: 7
Passenger: 67
Emergency condition: +750

Medical Facilities:

Doctors: 7
Nurses: 8
Operating Rooms: 6
Beds: 37

Laboratories: 8

Transportation Total: 15

1 Person: 0
2 Person: 0
6 Person: 8
12 Person: 9
22 Person: 8
Small Cargo: 2
Medium Cargo: 7
Large Cargo: 0
Stops Cargo: 0

Bridges: 33

Reconitors: 22

Tractor Beams:

Tow Capacity: 5.28E+06 mt
Max Range: 1.20E+05 km

Cargo Specifications:

Standard Cargo Units: 84
Cargo Capacity: 17050 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total:

Small Bay: 0
Medium Bay: 1
Large Bay: 0
Super Bay: 0
Shuttlecraft Standard: 82

Work Bays: 2

Travel Pods: 3

Aquatic Shuttle: 1

Light Shuttle: 1

Standard Shuttle: 10

Heavy Shuttle: 1

Cargo Shuttle:

Assault Shuttle: 23

Killer Bots: 4

Light Fighters: 6

Fighters: 6

Heavy Fighters: 4

Lifeboats: 49

Turbolift (8 person): 28

Lifeboat (10 person): 16

Lifeboat (20 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

Lifeboat (30 person): 7

ECM Index: 21

Shield Rating:

Shield Index: 0.85

Reload Power: 8.54E+11 W

Refresh Rate: 2.7 E+1 W

Breakdown Rate: 3.20E+1 W

Shield Dimensions (Meters)

Length: 498.66 m

Width: 285.82 m

Height: 105.44 m

Weapons:

Phase Power Index: 176

Photon Power Index: 0.887

Vessel Power Index: 121

Weapon Placement:

Beam (Phase) Total: 10 banks 2 each

Output: 7.50E+11 W 3.7E+11 W

Range: 4.10E+05 km

Rate of Fire: 40 rpm Com

Forward Banks: 2

Rear Banks: 0

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhase) Total: 7

Output: 3.00E+11 W 5.12E+11 W

Range: 5.1E+05 km

Rate of Fire: 20 rpm Com

Forward/Rear Banks: 3

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 20

Range: 7.90E+05 km

Output: 0.66 Megatons

Rate of Fire: 20 rpm

Forward Bay: 2

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

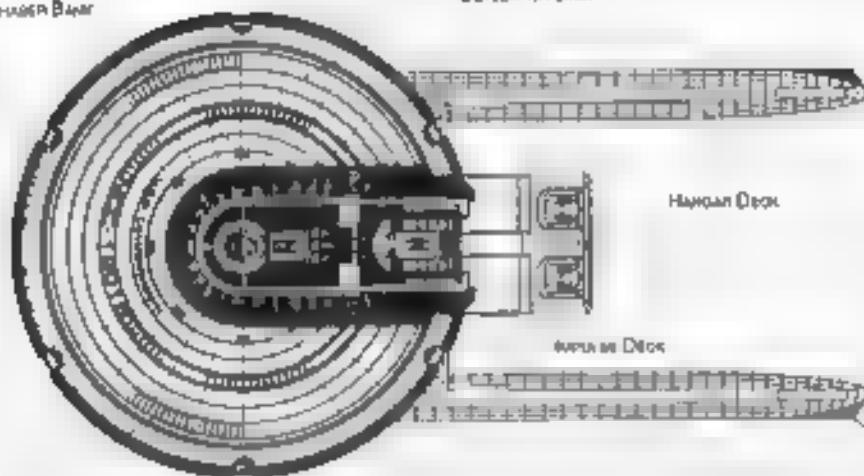
Lower Bay: 0

FRIGATE



PHASER BANK

DEFLECTOR GRID



HANGAR DECK

REACTOR

USS ENTERPRISE-A

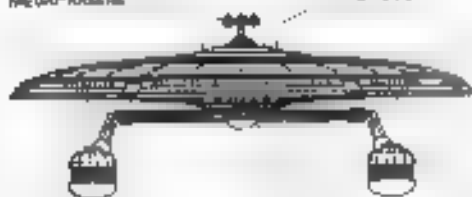
REACTION CONTROL THRUSTER

REACTION CONTROL THRUSTER

TOP PROFILE

MEGA PHASERS

BRIDGE

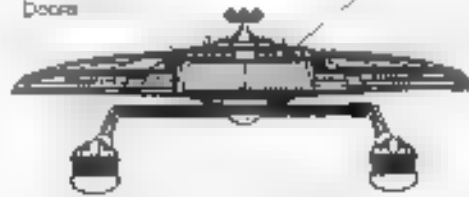


REACTION CONTROL THRUSTER

FRONT PROFILE

LANDING-BAY DOORS

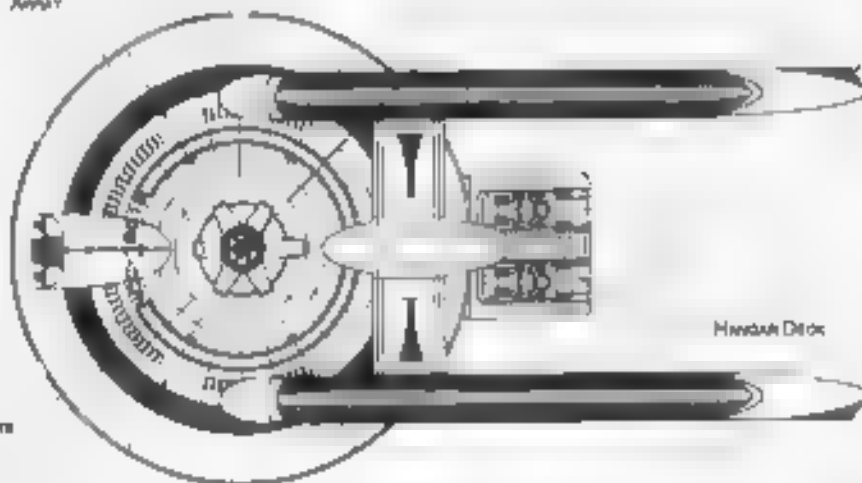
IMPULSE ENGINE



REAR PROFILE

MAIN SENSOR ARRAY

NAVIGATION DOME

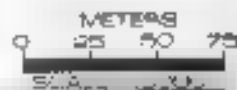


REACTION CONTROL THRUSTERS

HANGAR DECK

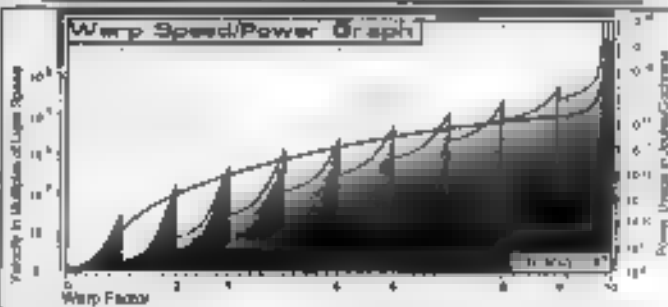
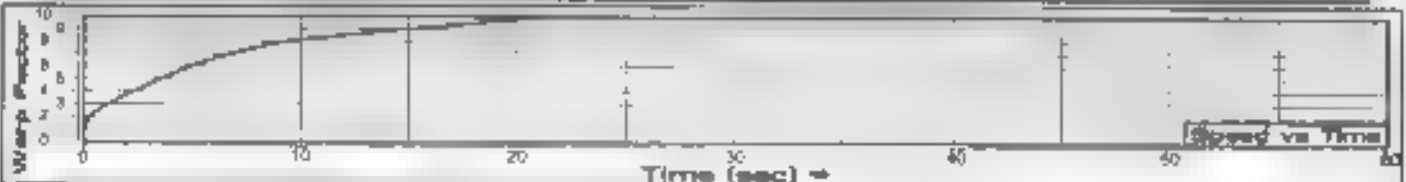
USS ENTERPRISE-A

BOTTOM PROFILE



[illegible]

Tractor Beam Specifications



Top Warp Field Profile
Cross Section Area = 4.65002566 m²

HEAVY FRIGATE



General Information

Specific Role: Federation involvement in peace-keeping duties led to the development of the Heavy Frigate, a fighting ship primarily used to transport troops and fighter craft into battle. Four photon torpedo bays provide this vessel with sufficient fire power to combat capital ships. The Heavy Frigate is equipped with several hangar bays designed to launch and maintain twelve full wings of fighter and support craft. Troops, doubling as relief maintenance crew, are carried aboard at all times and can use either assault shuttles or combat transporters to reach planetary engagements.

Physical Description: The HS20/C F O bridge is centered on top of the (P11422/C F5) extended primary hull and the DN8 5N navigational dome is centered underneath. Five (DP2, 60-20) phaser banks are mounted radially on top and underneath the primary hull. Four (P144/50-40F) bidirectional photon torpedo bays are mounted behind the bridge and fire to either side. Three small hangar bays are directly below the impulse engines and a fourth medium hangar bay is centered underneath. The (MH4 26 4E) Intermix hangar is vertically from the deflection crystal down to the small secondary hull where an ejection path allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A RF70E, B.R dual impulse unit is located on the rear of the primary hull to provide sub light propulsion. For warp propulsion two (SW100/2 12KL) nacelles are mounted on DU/55-0P support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

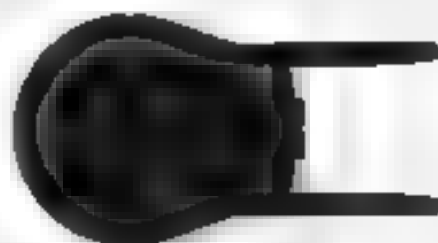
Class Emblem



Joshua Paul
Class
HEAVY FRIGATE

Ship Silhouettes

Total Target Area 48488.53 m²



Top Silhouette

Area 28088.33 m²



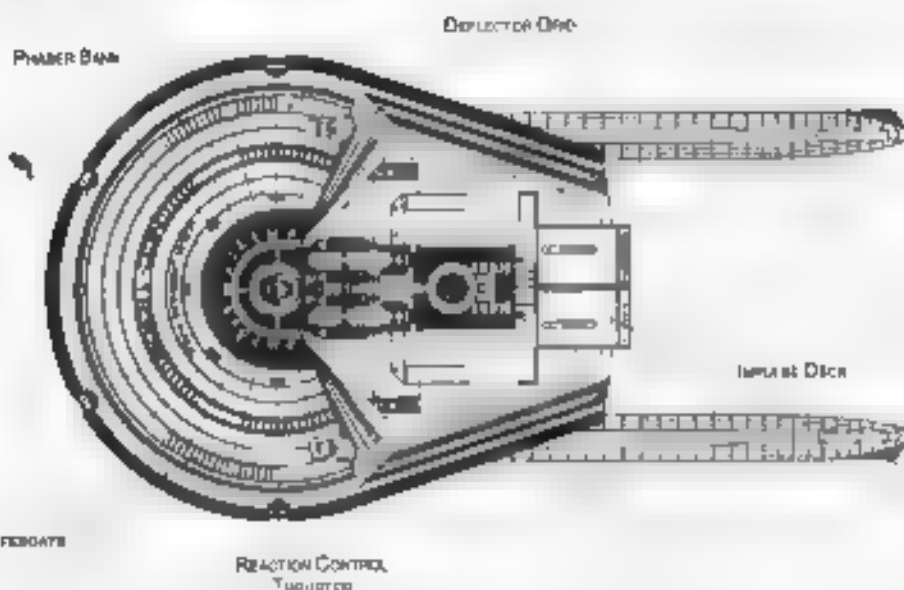
Area 2854.16 m²



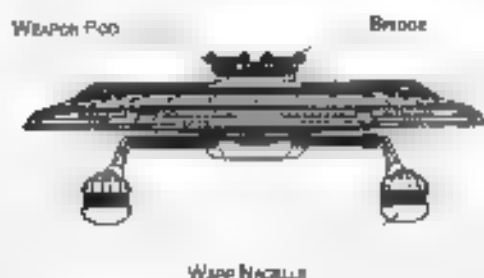
Front Silhouette

Area 4800.04 m²

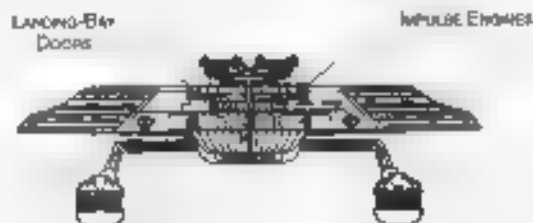
HEAVY FRIGATE



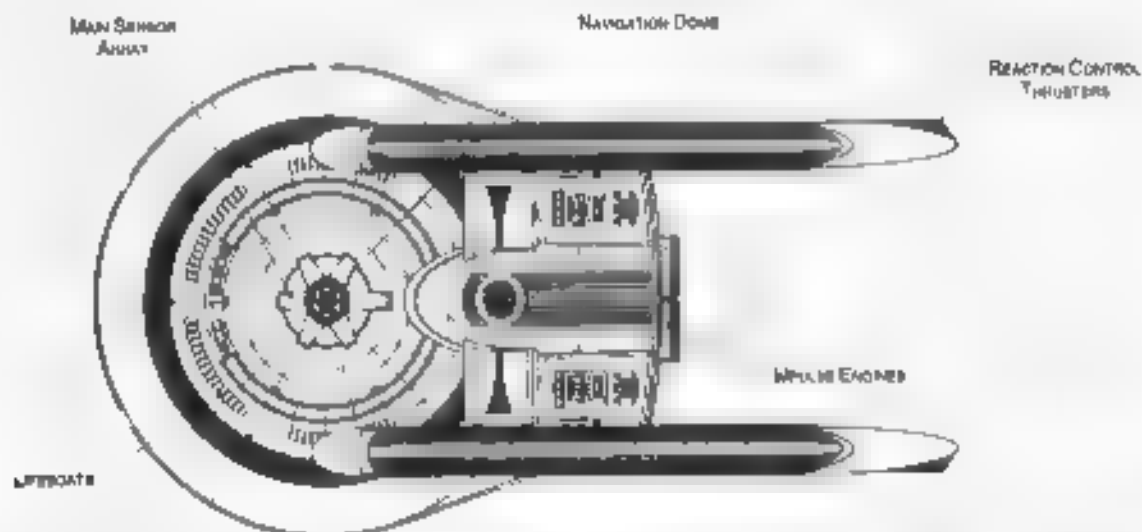
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





HEAVY FRIGATE

Ship Names

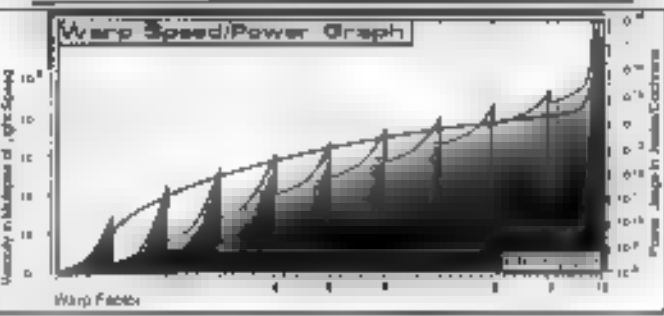
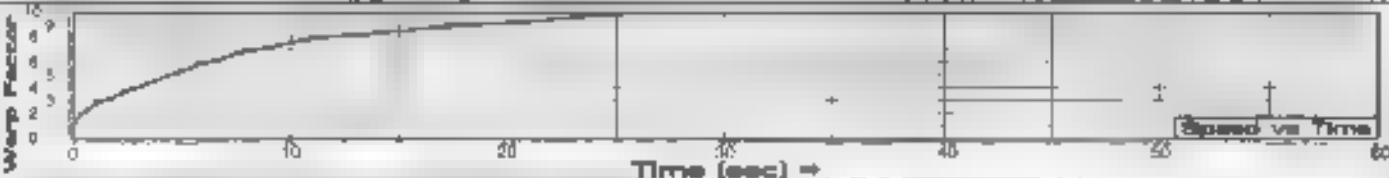
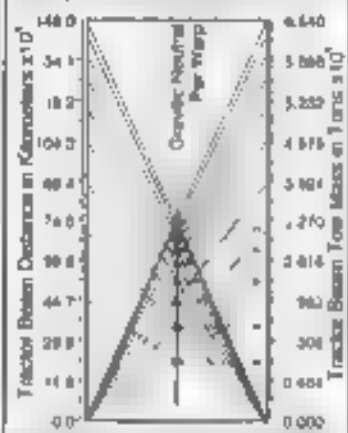
THE FOLLOWING SHIPS OF THE NX XIV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2227.5

ARMOR NCC 1011	KONO NCC 1048	FRANK NCC 10018
ARMATHA NCC 10708	KOWAL NCC 10488	FRANK NCC 10478
ARMED NCC 1008	KROWIS NCC 10488	FRANK NCC 10428
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10418
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10408
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10398
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10388
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10378
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10368
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10358
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10348
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10338
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10328
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10318
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10308
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10298
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10288
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10278
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10268
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10258
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10248
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10238
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10228
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10218
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10208
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10198
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10188
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10178
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10168
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10158
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10148
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10138
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10128
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10118
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10108
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10098
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10088
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10078
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10068
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10058
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10048
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10038
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10028
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10018
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10008
ARMOR NCC 10001	KROWIS NCC 10488	FRANK NCC 10001

FRANK NCC 10018
FRANK NCC 10478
FRANK NCC 10428
FRANK NCC 10418
FRANK NCC 10408
FRANK NCC 10398
FRANK NCC 10388
FRANK NCC 10378
FRANK NCC 10368
FRANK NCC 10358
FRANK NCC 10348
FRANK NCC 10338
FRANK NCC 10328
FRANK NCC 10318
FRANK NCC 10308
FRANK NCC 10298
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FRANK NCC 10068
FRANK NCC 10058
FRANK NCC 10048
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FRANK NCC 10018
FRANK NCC 10008
FRANK NCC 10001

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



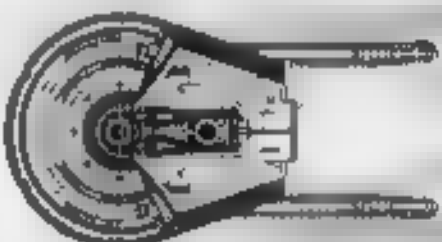
Field Length 887.17m
Field Width 888.88m
Field Height 108.48m



Front Warp Field Profile
Cross Section Area 18308.76 m²



Port Warp Field Profile
Cross Section Area 88808.24 m²



Top Warp Field Profile
Cross Section Area 181070.64 m²

WARP FIELDS

SRM3 04:02:10:04

STARFLEET REFERENCE MANUAL

JOSHUA PAUL CLASS

FEDERATION VESSEL

SCOUT



General Information

Specific Role: The Scout is a fast, cost-effective starship used for patrols, surveillance, and Federation defense. The high-density dual warp engine configuration gives the Michael Adam class an extended warp field for increased speed and efficiency. During military operations, the Scout, using extensive surveillance equipment, performs extended reconnaissance patrols of critical areas ahead of Federation vessels. The Scout is usually on extended mapping and treaty boundary reconnaissance missions. This design is based on the Joshua Class Command Cruiser.

Physical Description: The (P418/1-58) bridge is centered on top of the (P41250/D-L5) primary hull and the (P418/6N) navigational dome is centered underneath. The primary hull is equipped with additional sensors and a medium hangar deck facing to the rear. Three (P41250/2C) phaser banks are mounted radially on the top and bottom of the primary hull. A (SMF37/18A) high-gain omnidirectional sensor array is mounted on top of the warp nacelle and an (SMA7/4A) direction array is mounted underneath. The primary hull is joined to the unique dual warp nacelle by a (P4180/3F) connecting dorsal. The (P41250/2A) photon torpedo bay is located at the base of the connecting dorsal. The (M70/284E) mirror chamber runs vertically from the deflection crystal down to the dual warp nacelle where an ejection plate allows the core to be jetted out downward on an emergency. The matter/antimatter storage tanks are positioned between the field coils for emergency jettisoning. To the rear of the primary hull are (P212E/4CJ) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessel's warp fields are generated by A (SW64/14KV) dual ionizing warp nacelles. In the event of an emergency, the primary hull can separate from the warp nacelle section. Once separated, the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area: 42884.74 m²



Top Silhouette

Area: 29381.87 m²



Port Silhouette

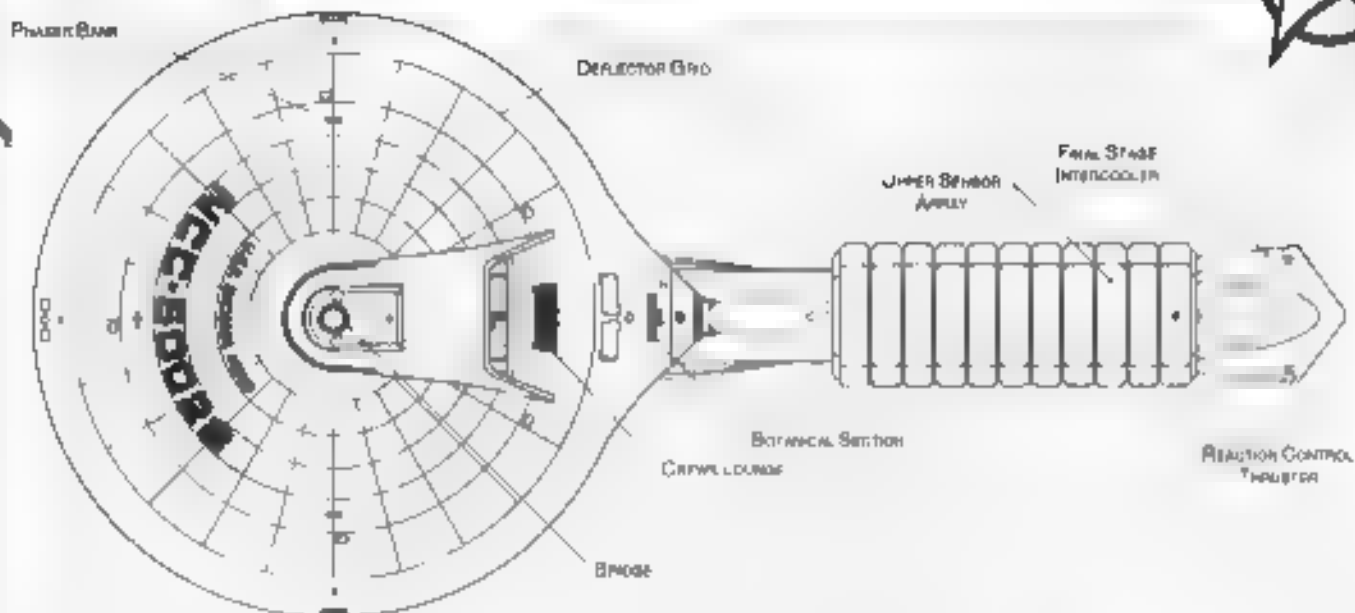
Area: 11228.18 m²



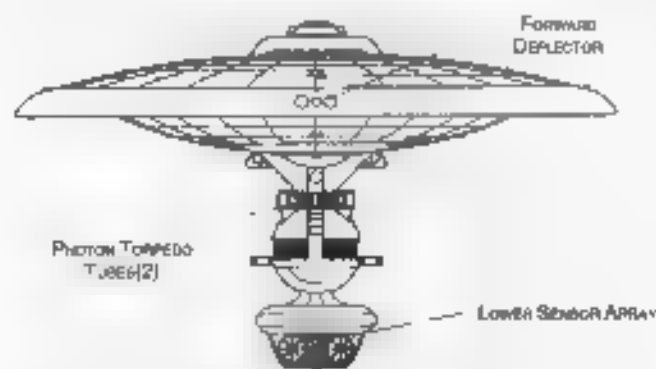
Front Silhouette

Area: 42884.71 m²

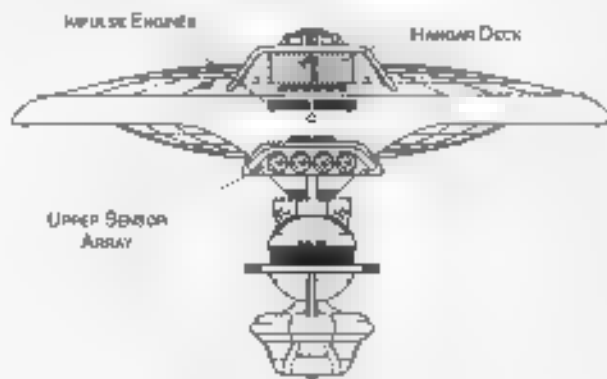
SCOUT



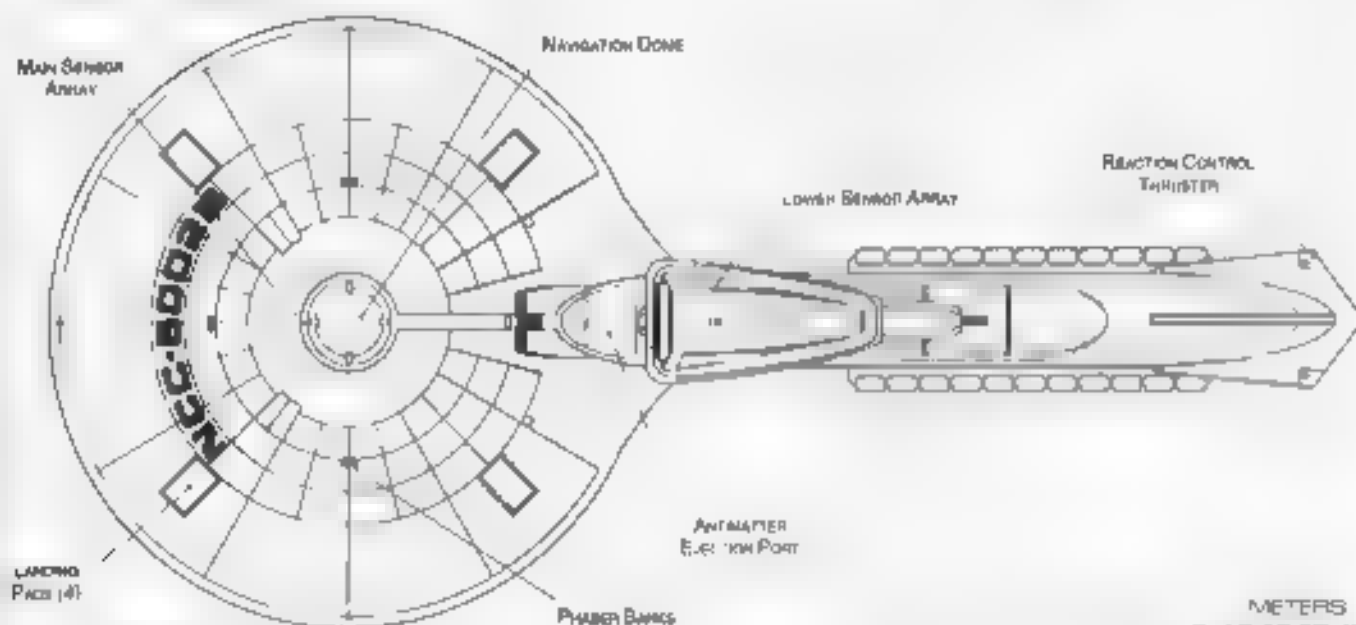
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50



MICHAEL ADAM CLASS

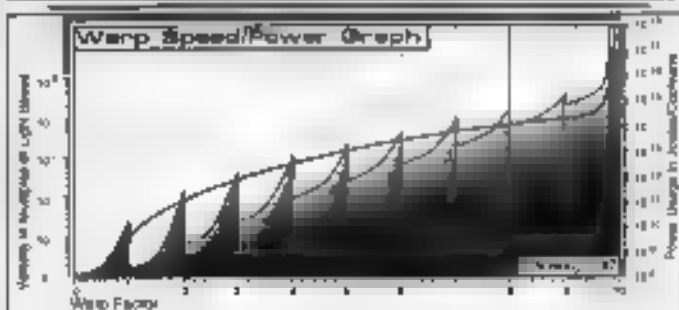
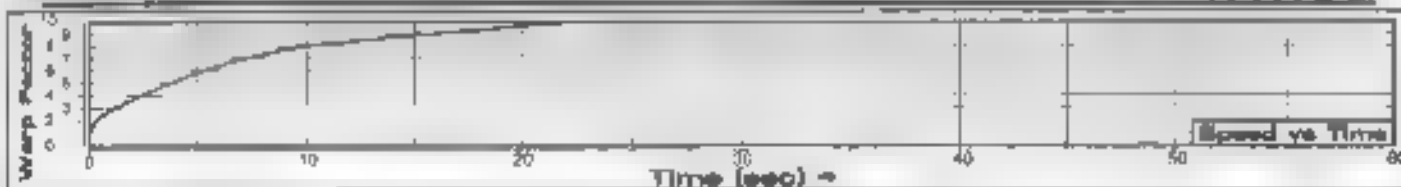
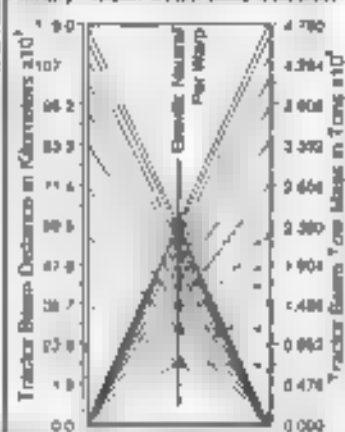
THE FOLLOWING SHIPS OF THE MK-XXX CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 1988.5

[illegible]

FLAME 1925. LOST IN THE LINE OF DUTY. "PROPOSED ALL NAMES BEING GIVEN WITH NAME"

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Field Length 547.4mm
Field Width 475.50mm
Field Height 116.50mm

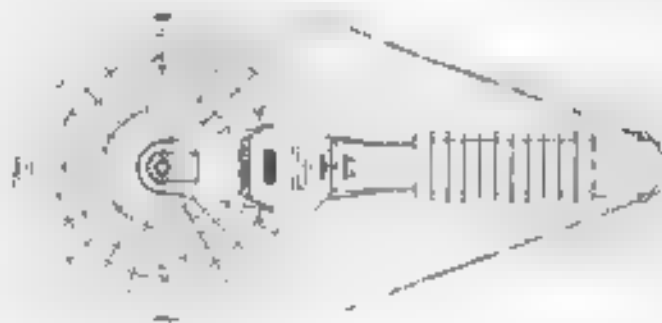


Front Warp Field Profile
Cross Section Area 18235.18 m²



Port Wierp Field Profile

Crack Factor Area: 0.00000 m²



Top Warp Field Profile
Cross Section Area: 80181.40 m²

WARP FIELDS

SAM3 04:02:11:04

STABFLEET REFERENCE MANUAL

FEDERATION VESSEL

TRANSPORT / TUG



General Information

Specific Role: The Anaxagoras Class Transport/Tug is one of the Federation's most widely used supply and vessels. Starfleet in particular depends upon the reliability of this vessel since it spends the least amount of time or any starship in port even when compared to deep space exploration vessels. The transport/tug has additional stations to accommodate passengers. This vessel is capable of transporting four containers at a time and up to eight containers through the use of container warp extenders.

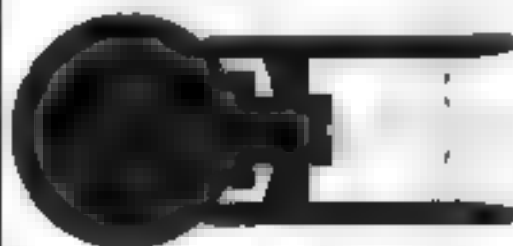
Physical Description: The (H820/C 1.8) bridge is centered on top of the (PH290/C 1.5) primary hull and the (DN8, 6N) navigational dome is centered underneath. Five (PH2/60/20) phaser banks are mounted radially on the top and bottom of the primary hull. A (PH2/50/20) photon torpedo bay is mounted underneath the front of the hull. A medium hangar bay extends from the rear underneath the impulse engines. The (MH0/28/4.1) antenna chamber runs horizontally between the jefferies tubes however the core can be retracted through the deflection crystals in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the hull. A (HCF70E/8/10) dual impulse core is located in the rear of the primary hull to provide a light or propulsion for warp propulsion two (SW 04/2/1 RT) nacelles are mounted on (DC/70/12) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 51,858.08; 71,735.38; 107,183.43 m²



Top Silhouette

Area 35485.68; 48540.89; 71305.58 m²

Port Silhouette

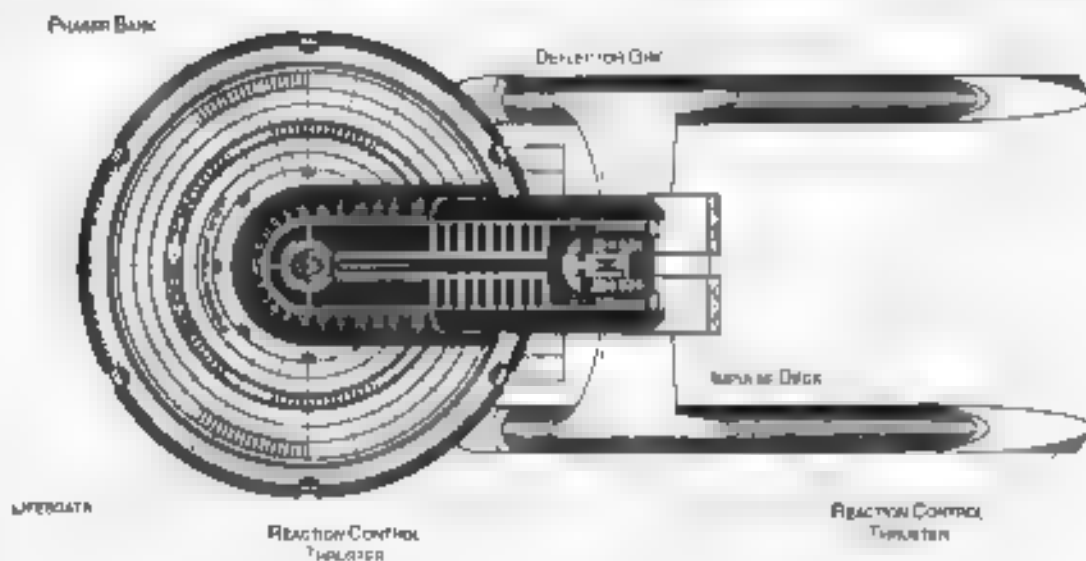
Area 5370.08; 11040.88; 22325.75 m²



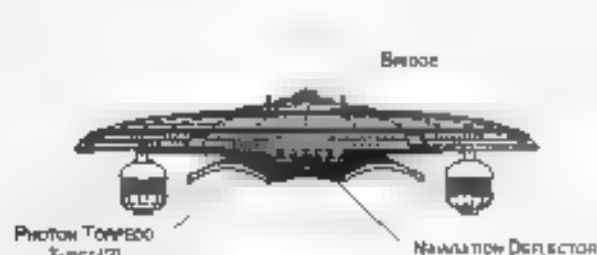
Front Silhouette

Area 3808.35; 5645.75; 7489.18 m²

TRANSPORT/TUG

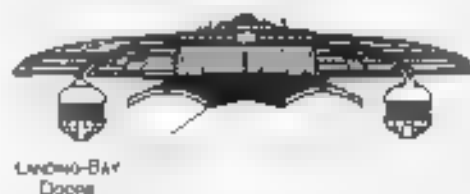


TOP PROFILE

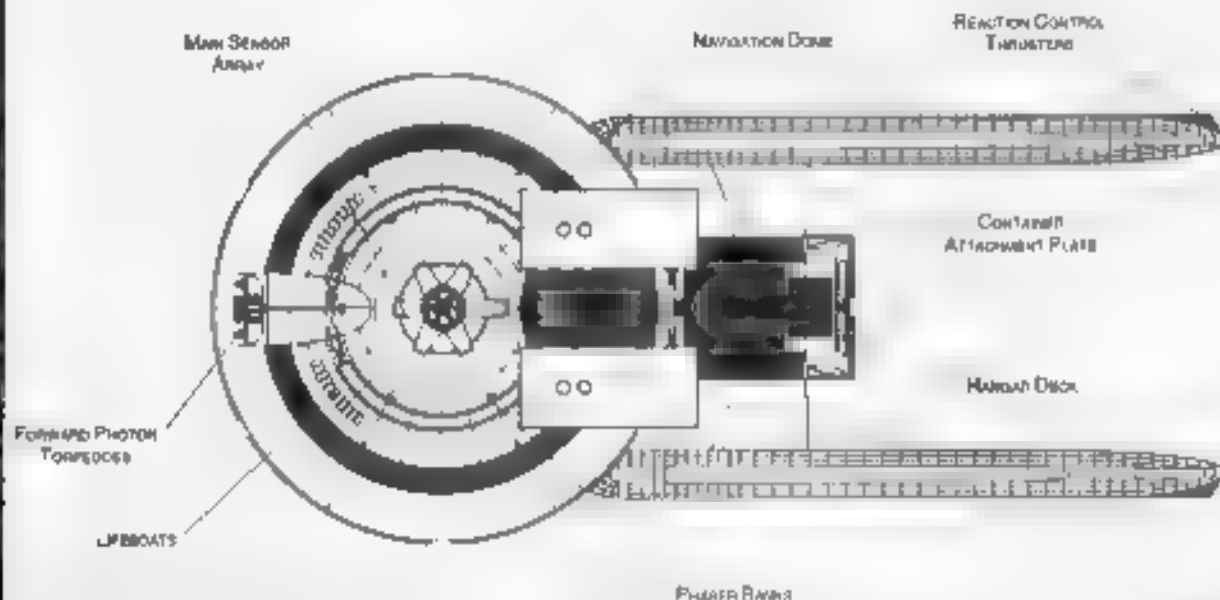


FRONT PROFILE

DEFLECTOR DISH



REAR PROFILE



BOTTOM PROFILE

METERS
0 25 50 75

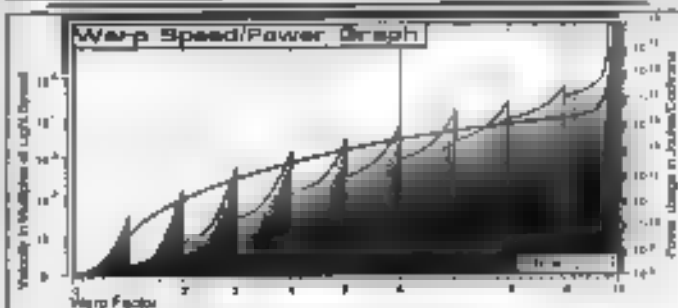
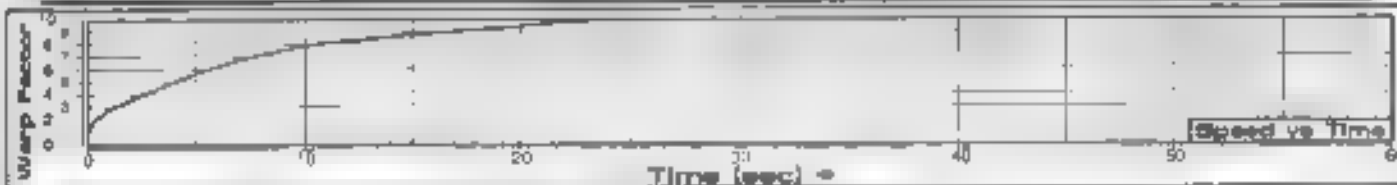


Ship Names

Tractor Beam Specifications

Primary Tractor System (with Cat 3400)

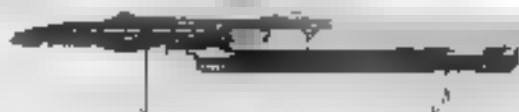
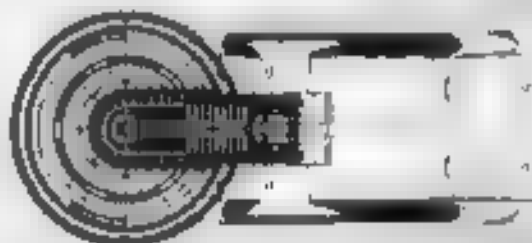
CLASS RPT. 'LOST IN THE LINE OF DUTY.' PROPOSED. ALL NAMES RECORDED WITH U.S.S.



Field Length 848.85m
Field Width 277.85m
Field Height 182.30m



Front Warp Field Profile
Cross Section Area 24041.50 m²

Port Warp Field Profile
Cross Section Area 6800000 m²

Top Warp Field Profile
Cross Section Area 187,302.74 m²

WARP FIELDS

SRM3 04:02:12:04

STABFLEET REFERENCE MANUAL

ANAXAGORAS CLASS

Kenneth R. Smith, *University of Illinois at Chicago*

BULK CARGO CARRIER



General Information

Specific Role: The Bulk Cargo Carrier (BCC) is the super tanker of the Federation. Often starbase sections, starship parts (such as primary hulls or warp nacelles) and whole research stations are transported by BCCs. The responsibility of safely navigating this 1,300 meter monster requires a serious crew and a disciplined captain. Many work bees, heavy shuttle craft and shuttles are needed to handle the immense cargo capabilities of the BCC. Despite the large size of this vessel, it is able to maintain a top cruising speed of warp four.

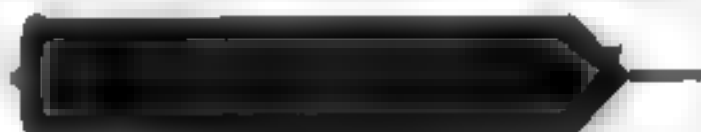
Physical Description: The overall design of the BCC is cylindrical in nature and has 78 (T15, M40) tractor beam mounting stations spaced equally around the interior for handling and securing cargo. The T1520/C18 bridge is centered on the top front center of the cargo bay, and the D18/A12 navigational deflector protects from the front center of the main hull. The BCC has a (B17, 30 IC) phaser but during transit the Work Bees are in their Killer Bee attachments. A small hangar bay is directly underneath the main section of the ship. For warp propulsion, two (SW52, 5x1) warp nacelles extend from the rear of the conical engineering section. The (M50, 16.4x) intermix chamber runs vertically down from the deflection crystals to the primary matter storage facility. The core can be jettisoned through the deflection crystals in an emergency. The material matter storage tanks are positioned for emergency jettisoning at the rear of the engineering section underneath the warp nacelles. For sub-light propulsion, three high output (HOBDE, 10HC) dual impulse units are located on the rear of the engineering section just above the warp nacelles. In the event of an emergency the warp nacelles can be jettisoned. The BCC can continue indefinitely without the warp nacelles but would require emergency assistance in the event of a warp core jettison.

Class Emblem

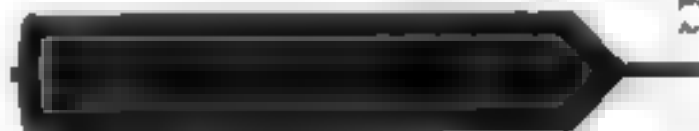


Ship Silhouettes

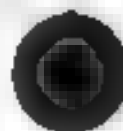
Total Target Area 183889.38 m²



Port Silhouette
Area 87340.48 m²

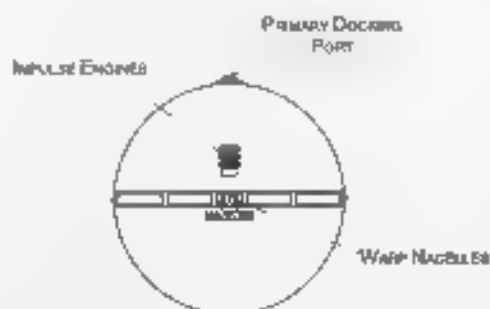
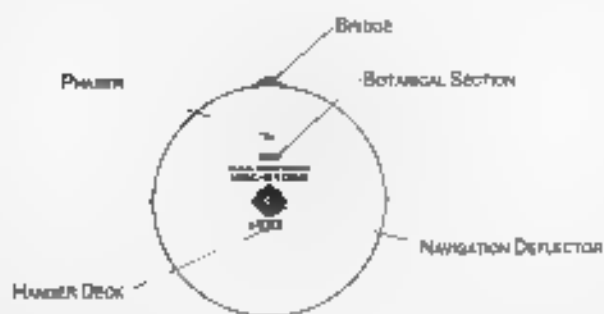
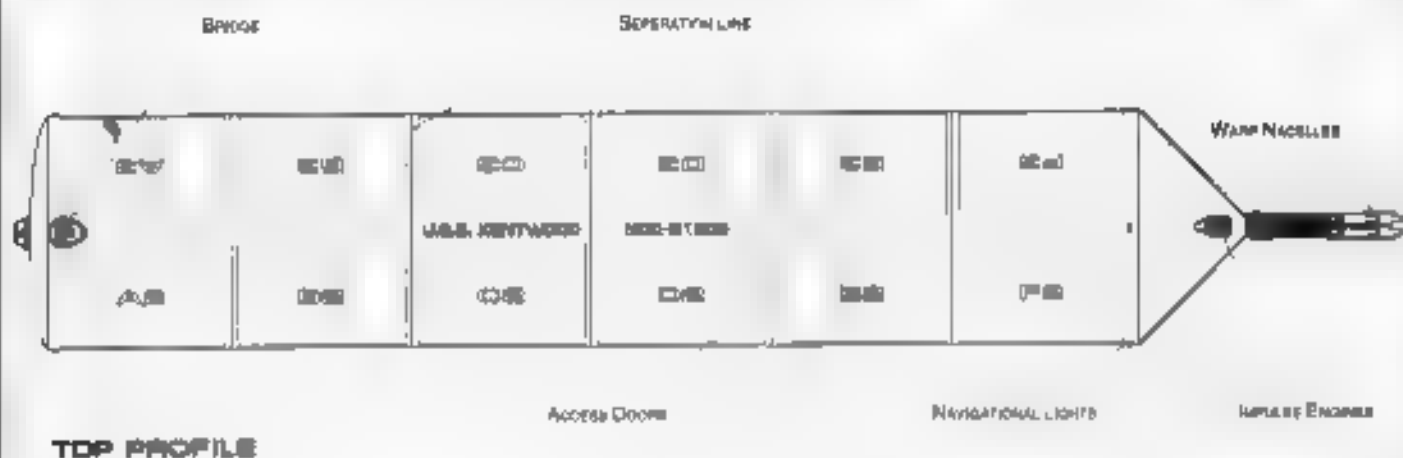


Top Silhouette
Area 87828.70 m²



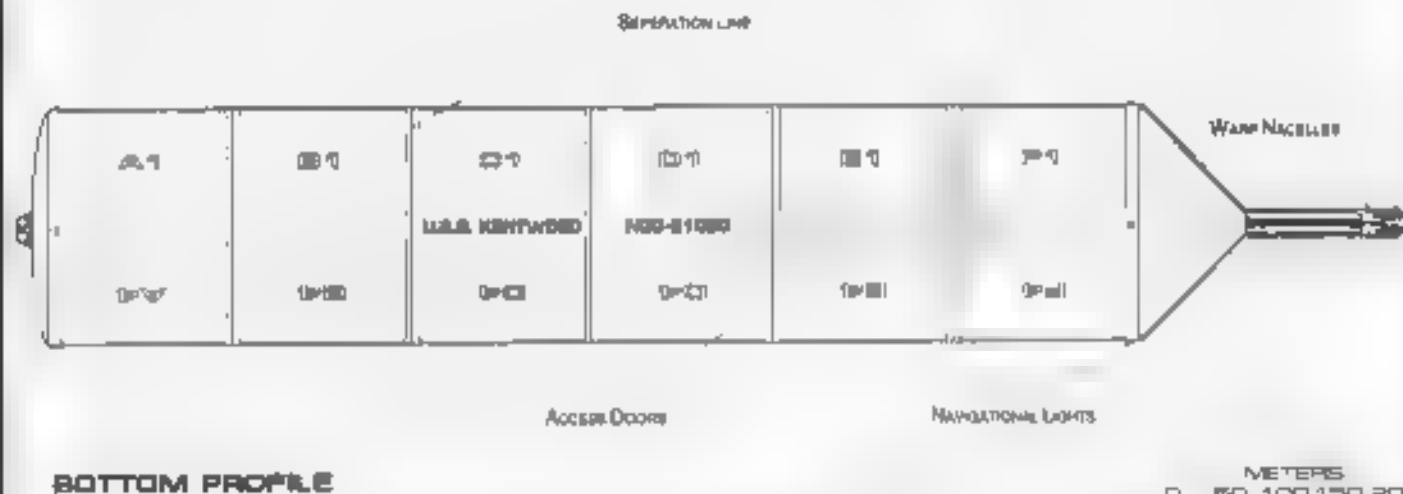
Front Silhouette
Area 8838.20 m²

BULK CARGO CARRIER



• FRONT PROFILE

REAR PROFILE



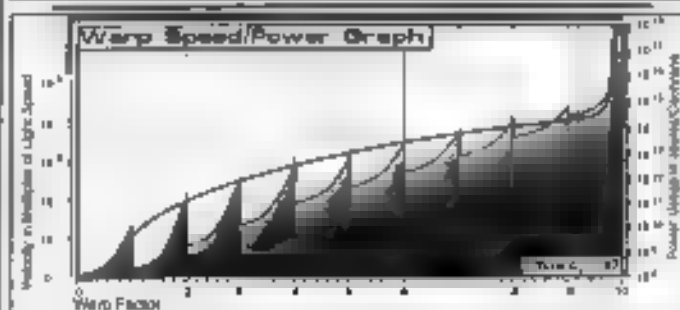
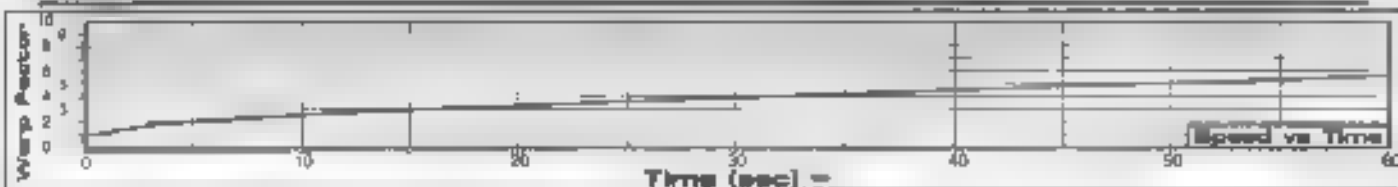
METERS
0 50 100 150 200



Tractor Beam Specifications

Primary T vector Beam Load Calculator

CLASSIFIED, LOST IN THE LINE OF DUTY. PREPARED. ALL NAMES PRECEDED WITH U.S.S.



Field Length 30.00m
Field Width 30.00m
Field Height 30.00m



Front Warp Field Profile
Cross Section Area 207.12-00 m²

Port Warp Field Profile
Cross Section Area 95343.15 m²

Top Warp Field Profile
Cross Section Area 563341.81 m²

WARP FIELDS

SAM3 04:03:01:04

STARFLEET REFERENCE MANUAL

KENTWOOD CLASS

FEDERATION VESSEL

CARGO DRONE



General Information

Specific Role: The Pershing class Cargo Drone is used to transport low priority cargo between inner Federation planets. Generally these vessels can be found navigating their way through commercial trade routes at warp six. The drone's turn around time at port is extremely fast since it does have a crew requiring leave or supplies.

Physical Description: The boxy construction of the Cargo Drone hides the efficiency of its design. The Central tower contains an auxiliary type (SW5/C-45) bridge, a medium hangar bay and computer core. A SM52/122 high gain sensor array is mounted approximately forward of the central tower. The (P4245/C10-4) primary hull consists mainly of storage with engineering section at the rear. The descending tower is the main cargo hold with hold number four and the light cargo hold located immediately forward. Two (LNS-8) navigational defensors are mounted at the rear of an light cargo section. Holds two through five are located directly behind the lower tower in descending size. A tractor beam is mounted directly under hold number 5. The (Mk-26-41) tractor beam chamber is located between the two pylons with the spatter/antimatter facilities at the rear. For (slight) propulsion, two (Bk-5F-41) single impulse drives are mounted to either side of the rear section. For warp propulsion, two SW52-5(CD) warp nacelles are mounted to either side of the engineering section on (P1/70-2F) pylons. No provisions have been made for jettisoning. In warp core or nacelle failure crew safety is not a concern. In the event of a warp core breach or catastrophic engine damage, a warning is broadcast on all frequencies describing the danger and distance required for safety purposes.

Class Emblem



Ship Silhouettes

Total Target Area 47441.00 m²



Top Silhouette

Area 25021.66 m²



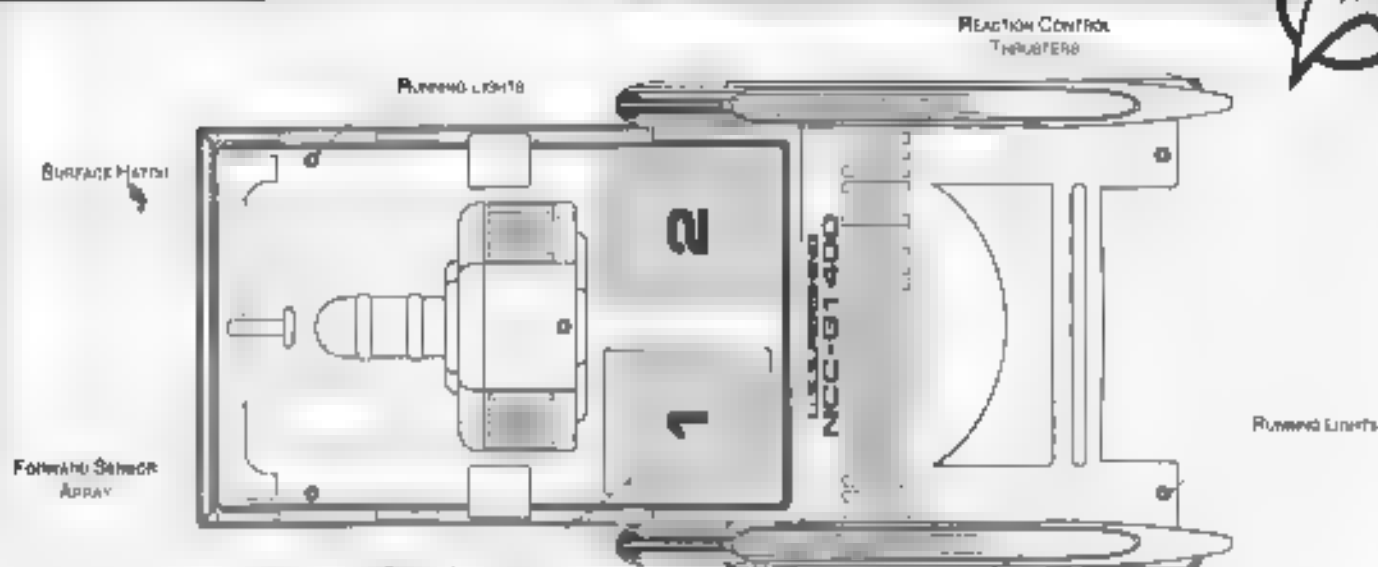
Area 13187.88 m²



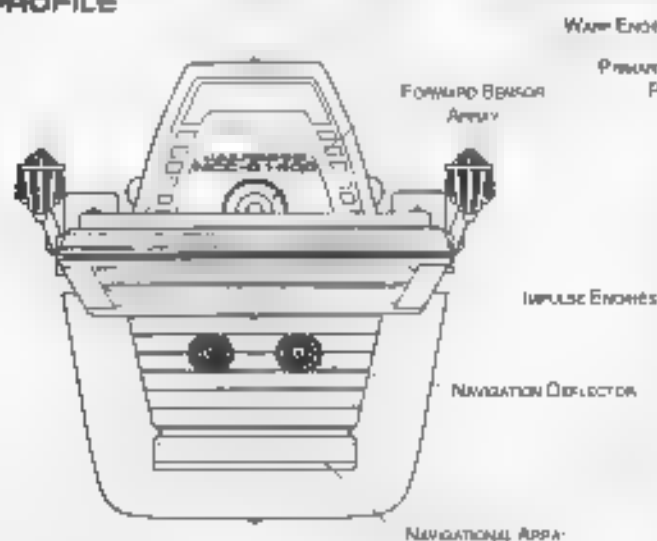
Front Silhouette

Area 9211.26 m²

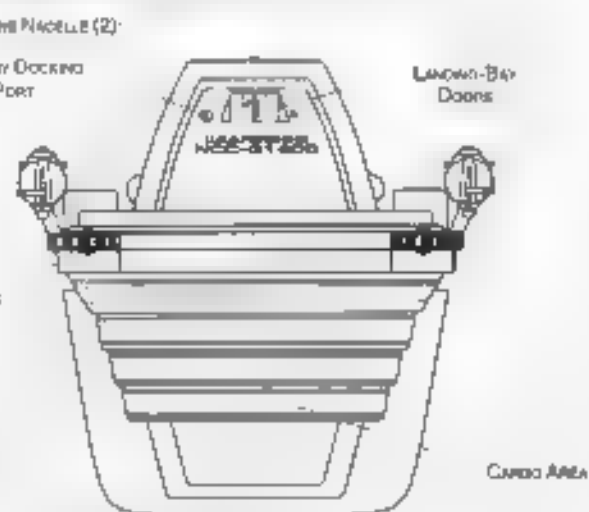
CARGO DRONE



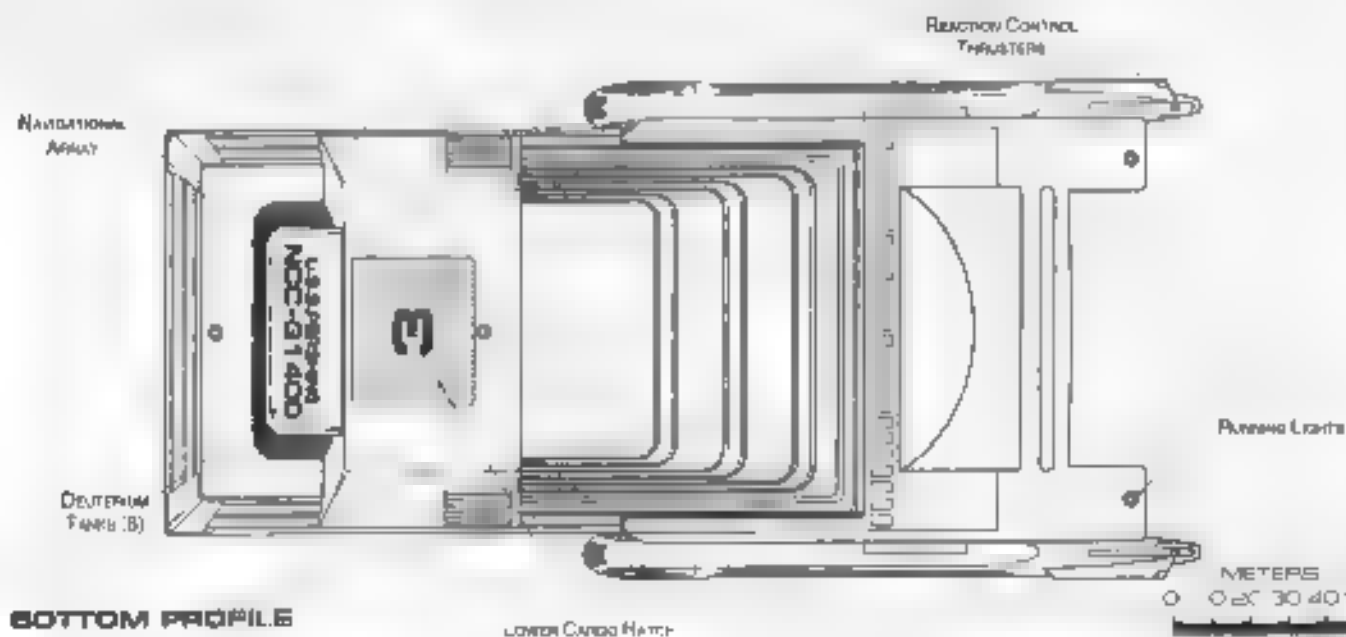
TOP PROFILE



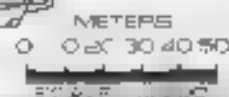
FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





Ship Names

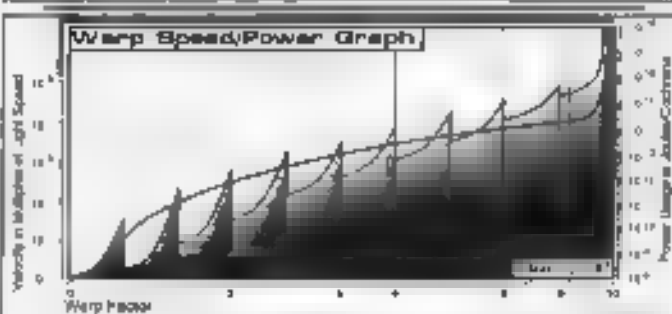
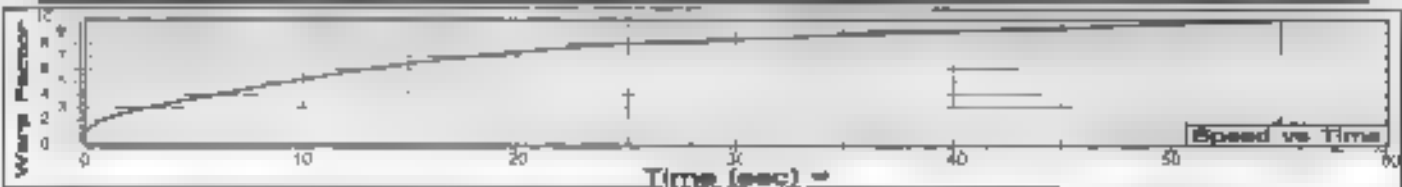
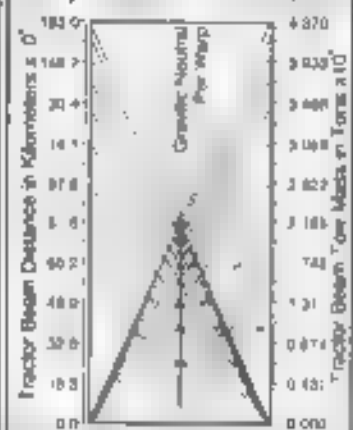
THE FOLLOWING SHIPS OF THE NX-B-IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2255.2

PERSHNG01	NCC G 400	PERSHNG02	NCC G 420	PERSHNG03	NCC G 450	PERSHNG04	NCC G 475
PERSHNG05	NCC G 401	PERSHNG06	NCC G 421	PERSHNG07	NCC G 451	PERSHNG08	NCC G 476
PERSHNG09	NCC G 402	PERSHNG10	NCC G 422	PERSHNG11	NCC G 452	PERSHNG12	NCC G 477
PERSHNG13	NCC G 403	PERSHNG14	NCC G 423	PERSHNG15	NCC G 453	PERSHNG16	NCC G 478
PERSHNG17	NCC G 404	PERSHNG18	NCC G 424	PERSHNG19	NCC G 454	PERSHNG20	NCC G 479
PERSHNG21	NCC G 405	PERSHNG22	NCC G 425	PERSHNG23	NCC G 455	PERSHNG24	NCC G 480
PERSHNG25	NCC G 406	PERSHNG26	NCC G 426	PERSHNG27	NCC G 456	PERSHNG28	NCC G 481
PERSHNG29	NCC G 407	PERSHNG30	NCC G 427	PERSHNG31	NCC G 457	PERSHNG32	NCC G 482
PERSHNG33	NCC G 408	PERSHNG34	NCC G 428	PERSHNG35	NCC G 458	PERSHNG36	NCC G 483
PERSHNG37	NCC G 409	PERSHNG38	NCC G 429	PERSHNG39	NCC G 459	PERSHNG40	NCC G 484
PERSHNG41	NCC G 410	PERSHNG42	NCC G 430	PERSHNG43	NCC G 460	PERSHNG44	NCC G 485
PERSHNG45	NCC G 411	PERSHNG46	NCC G 431	PERSHNG47	NCC G 461	PERSHNG48	NCC G 486
PERSHNG49	NCC G 412	PERSHNG50	NCC G 432	PERSHNG51	NCC G 462	PERSHNG52	NCC G 487
PERSHNG53	NCC G 413	PERSHNG54	NCC G 433	PERSHNG55	NCC G 463	PERSHNG56	NCC G 488
PERSHNG57	NCC G 414	PERSHNG58	NCC G 434	PERSHNG59	NCC G 464	PERSHNG60	NCC G 489
PERSHNG61	NCC G 415	PERSHNG62	NCC G 435	PERSHNG63	NCC G 465	PERSHNG64	NCC G 490
PERSHNG65	NCC G 416	PERSHNG66	NCC G 436	PERSHNG67	NCC G 466	PERSHNG68	NCC G 491
PERSHNG69	NCC G 417	PERSHNG70	NCC G 437	PERSHNG71	NCC G 467	PERSHNG72	NCC G 492
PERSHNG73	NCC G 418	PERSHNG74	NCC G 438	PERSHNG75	NCC G 468	PERSHNG76	NCC G 493
PERSHNG77	NCC G 419	PERSHNG78	NCC G 439	PERSHNG79	NCC G 469	PERSHNG80	NCC G 494
PERSHNG81	NCC G 420	PERSHNG82	NCC G 440	PERSHNG83	NCC G 470	PERSHNG84	NCC G 495
PERSHNG85	NCC G 421	PERSHNG86	NCC G 441	PERSHNG87	NCC G 471	PERSHNG88	NCC G 496
PERSHNG89	NCC G 422	PERSHNG90	NCC G 442	PERSHNG91	NCC G 472	PERSHNG92	NCC G 497
PERSHNG93	NCC G 423	PERSHNG94	NCC G 443	PERSHNG95	NCC G 473	PERSHNG96	NCC G 498
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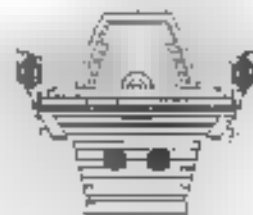
CLASS SHIP, LOST IN THE LINE OF DUTY. PROPOSED. ALL NAMES PREFIXED WITH V.S.S.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



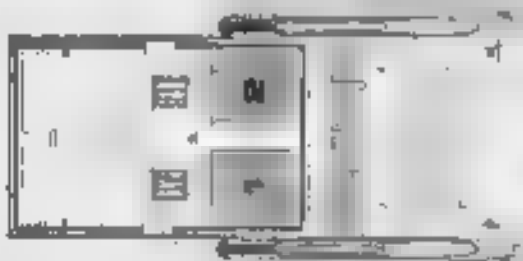
Field Length: 600.00m
Field Width: 172.87m
Field Height: 188.87m



Front Warp Field Profile
Cross Section Area: 17758.80 m²



Port Warp Field Profile
Cross Section Area: 51555.24 m²



Top Warp Field Profile
Cross Section Area: 78088.20 m²

FREIGHTER



General Information

Specific Role: The Ostoris Class Freighter is used primarily for the shipment of exotic food stuffs and medical supplies not produced by many worlds. This vessel, commercially operated by many races, can be found between Federation rim colonies and starbases. The self-contained warp core/nacelles make this one of the latest vessels in the Federation.

Physical Description: The (BF5/C-F2) bridge is centered on top of the freighter's wedge shaped hull. A medium hangar bay forward of the bridge protrudes from the slope of the front hull. A (SQ8/A.0) rectangular navigational deflector is mounted in the rear of vessel. Standard cargo modules are loaded through forward lock underneath the hangar bay deflector. Behind the bridge in the rear half of the vessel is the main cargo hold with six large cargo decks in top and six in bottom. This cargo vessel has two (M2-A-2) engine nozzles and no motion computers. The (R505/C-F) triple drive is located at the (R505/C-F) section of the main cargo hold lower in rear cargo half area. The self contained (SC-35/1-450) warp core nacelles can be jettisoned in an emergency and the freighter can continue on impulse until its well is depleted.

Class Emblem

Freighter
Ostoris Class



Ship Silhouettes

Total Target Area 22227.65 m²



Top Silhouette

Area 21227.77 m²



Port Silhouette

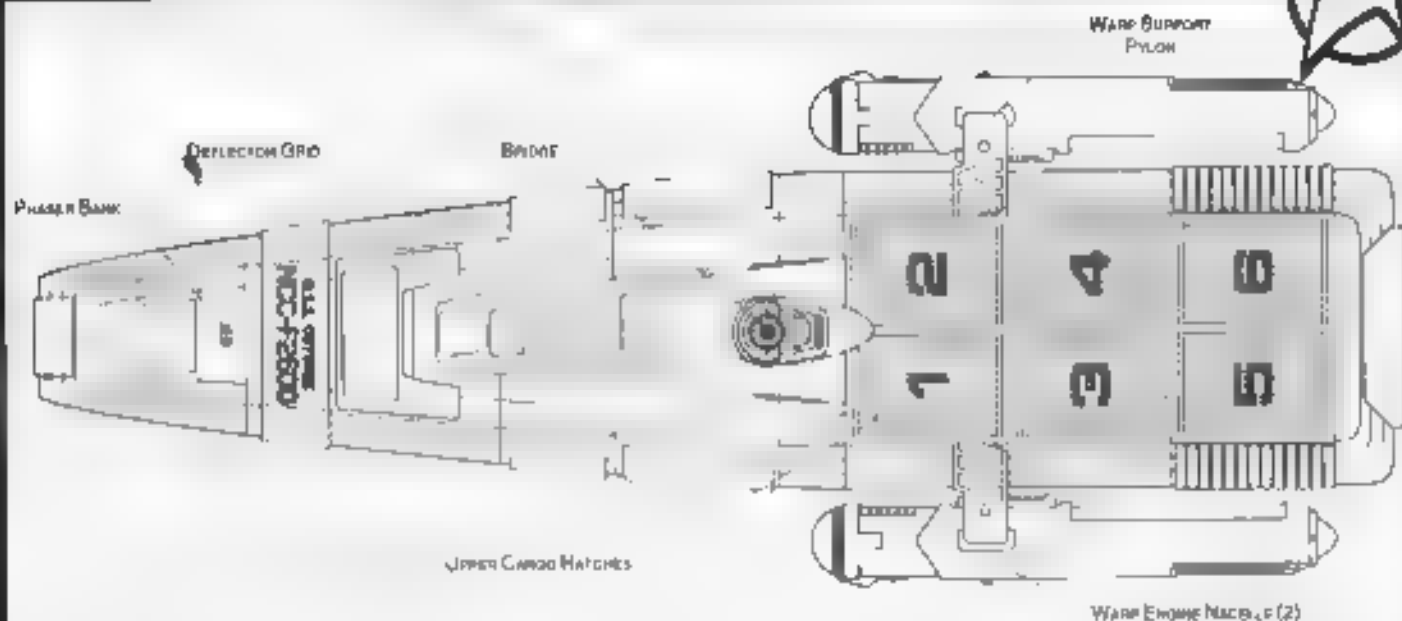
Area 19227.63 m²



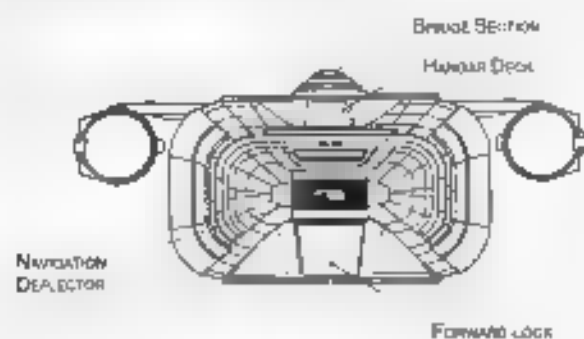
Front Silhouette

Area 4227.65 m²

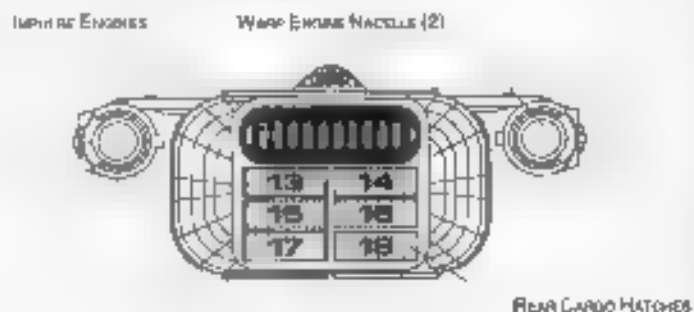
FREIGHTER



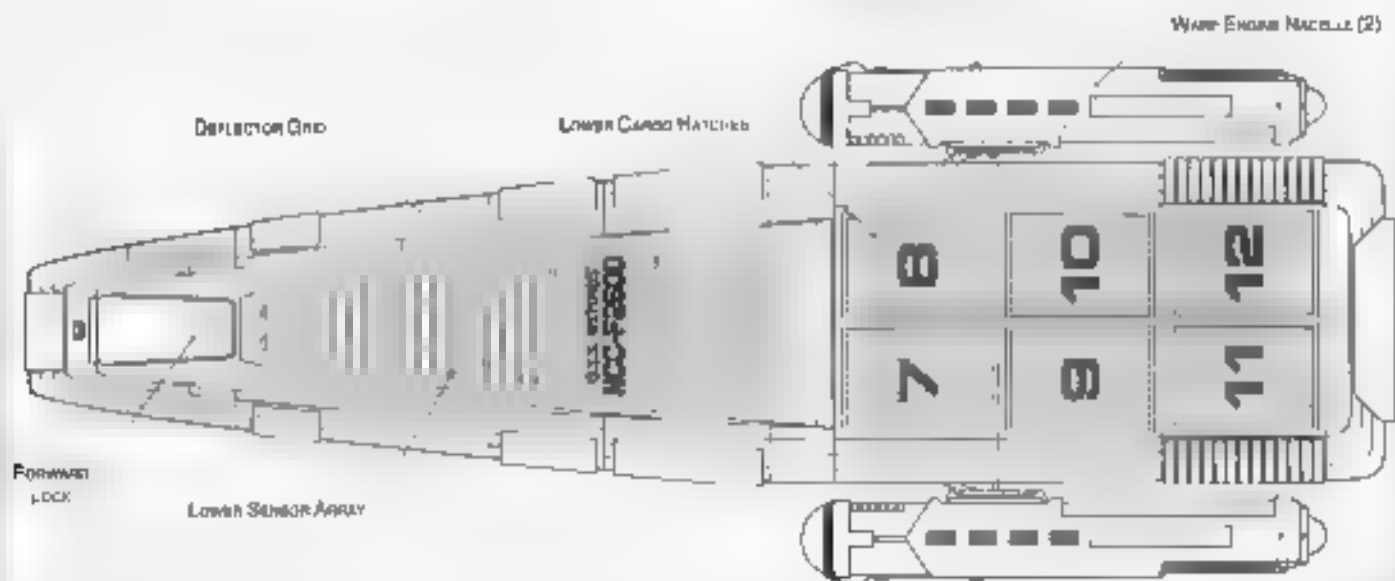
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50



Ship Names

THE FOLLOWING SHIPS OF THE MKB VI CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDAT 888888

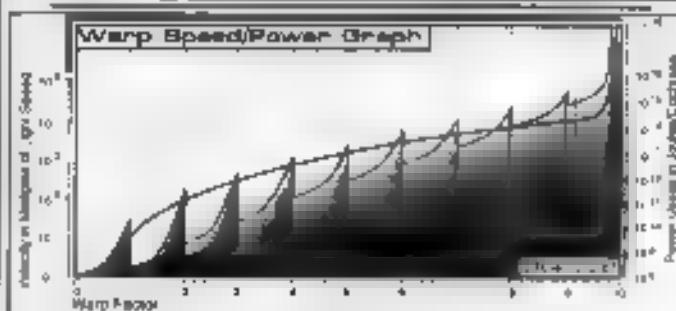
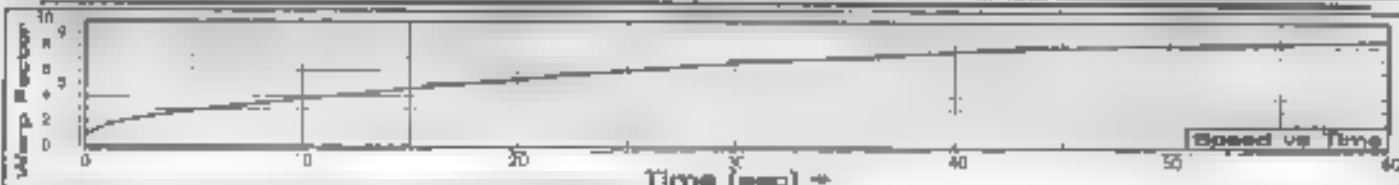
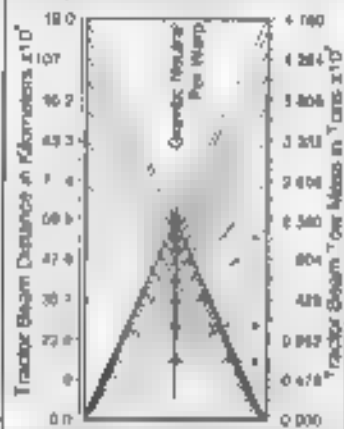
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2 M. NCT 2654
 WAI. A. S. AND. NCT F2845
 MAMMILLARIA NCT F2851
 WAI. A. S. NCT F2852
 WAI. VANCE. NCT F2853
 WAI. NCT 2854
 WAI. A. S. NCT 2855
 WAI. A. S. NCT 2856
 WAI. A. S. NCT 2857
 WAI. A. S. NCT 2858
 WAI. A. S. NCT 2859
 WAI. A. S. NCT 2860
 WAI. A. S. NCT 2861
 WAI. A. S. NCT 2862
 WAI. A. S. NCT 2863
 WAI. A. S. NCT 2864
 WAI. A. S. NCT 2865
 WAI. A. S. NCT 2866
 WAI. A. S. NCT 2867
 WAI. A. S. NCT 2868
 WAI. A. S. NCT 2869
 WAI. A. S. NCT 2870
 WAI. A. S. NCT 2871
 WAI. A. S. NCT 2872
 WAI. A. S. NCT 2873
 WAI. A. S. NCT 2874
 WAI. A. S. NCT 2875
 WAI. A. S. NCT 2876
 WAI. A. S. NCT 2877
 WAI. A. S. NCT 2878
 WAI. A. S. NCT 2879
 WAI. A. S. NCT 2880
 WAI. A. S. NCT 2881
 WAI. A. S. NCT 2882
 WAI. A. S. NCT 2883
 WAI. A. S. NCT 2884
 WAI. A. S. NCT 2885
 WAI. A. S. NCT 2886
 WAI. A. S. NCT 2887
 WAI. A. S. NCT 2888
 WAI. A. S. NCT 2889
 WAI. A. S. NCT 2890
 WAI. A. S. NCT 2891
 WAI. A. S. NCT 2892
 WAI. A. S. NCT 2893
 WAI. A. S. NCT 2894
 WAI. A. S. NCT 2895
 WAI. A. S. NCT 2896
 WAI. A. S. NCT 2897
 WAI. A. S. NCT 2898
 WAI. A. S. NCT 2899
 WAI. A. S. NCT 2900

[illegible]

Tractor Beam Specifications

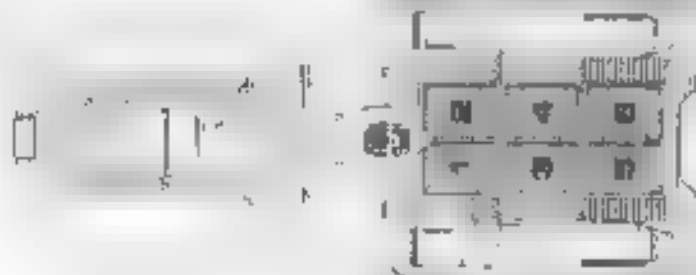
Primary motor Brain and Cerebellum



Field Length	573.02m
Field Width	77.54m
Field Height	80.33m



Front Warp Field Profile
Cross Section Area 10002.56 m²

Port Warp Field Profile
Cross Section Area 8885.07 m²

Top Warp Field Profile
Cross Section Area 80443.70 m²

WARR FIELDS

SAM3 04:03:03:04

STARFLEET REFERENCE MANUAL

OSTOIAIS CLASS

FEDERATION VESSEL

SUPPLY TENDER

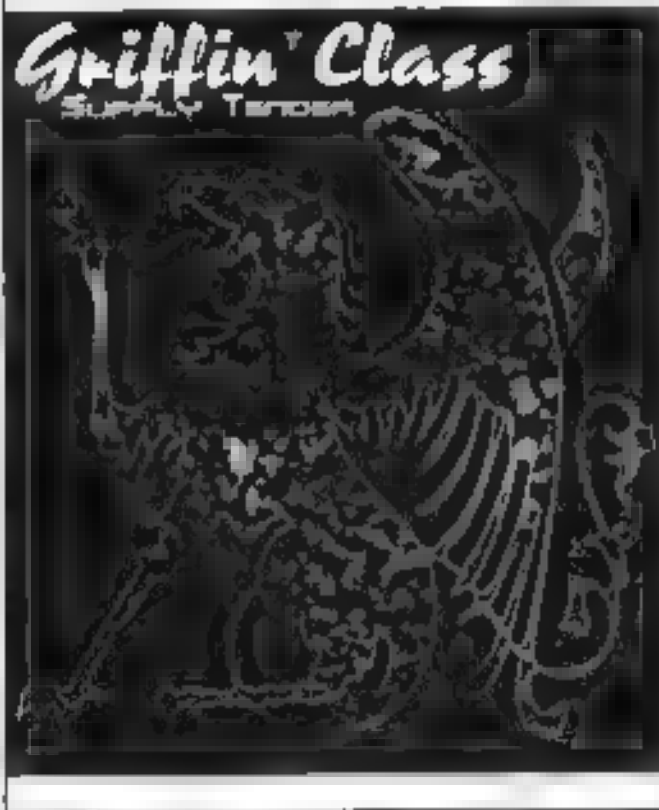


General Information

Specific Role: The Supply Tender is used primarily for the shipment of starship maintenance related cargo and parts. The Griffin Class supply tenders are often crewed by em star fleet personnel knowledgeable about the repair and maintenance of many Federation vessels. In addition to hard-to-replicate starship parts, foodstuffs and other items are conveyed for trade and sale in exotic ports of call. Hundreds of supply tenders are also used in the private and commercial sectors since it is simple matter to convert the large cargo-bays for a variety of uses.

Physical Description: The (B3-5/C-F2) bridge is centered on top of the vessel over the shuttle bay on the front slope of the hull. The (CIR87A-0) trapezoidal navigational deflector is situated on the nose of vessel. Sensor arrays are positioned on either side of the vessel just aft of bay three. The Supply Tender has eight large cargo doors, one on each end and six underneath the Langer Bay. Cargo bay two is located directly forward of the Langer bay. Standard cargo modules are loaded through forward lock underneath the navigational deflector. This class vessel has four (12-30-20) phaser banks and no photon torpedoes. The (J2K50F7-6-0P) impulse drive is located at the top rear section of the hull, cargo hold above the rear cargo hatch. The self-contained (SC357-4-45F) warp core nacelles can be jettisoned in an emergency and the tender can continue on impulse until its fuel supply is depleted.

Class Emblem



Ship Silhouettes

Total Target Area: 52378.88 m²



Top Silhouette

Area: 30196.33 m²



Port Silhouette

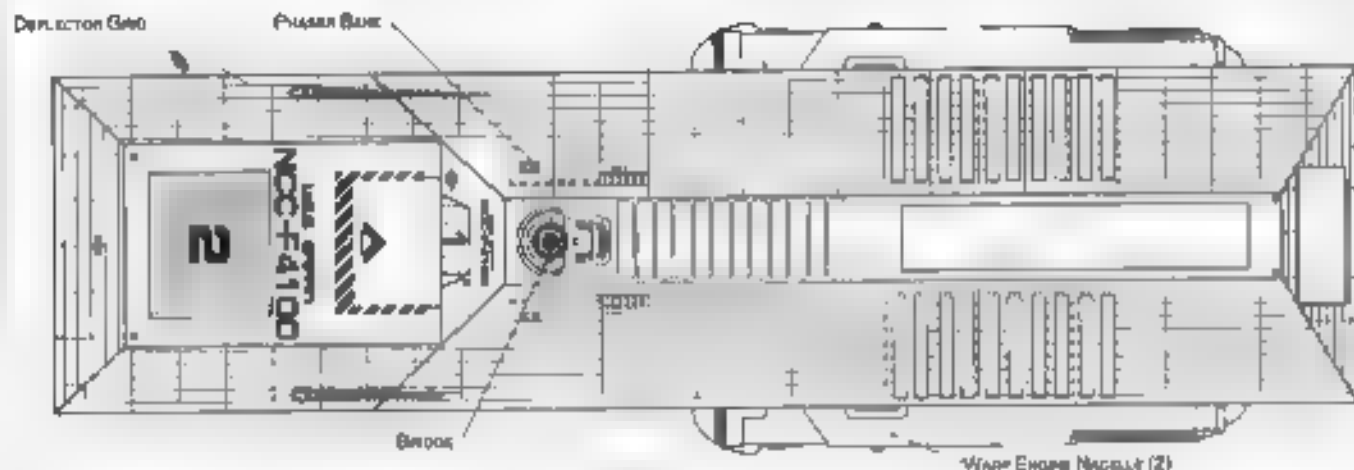
Area: 17675.88 m²



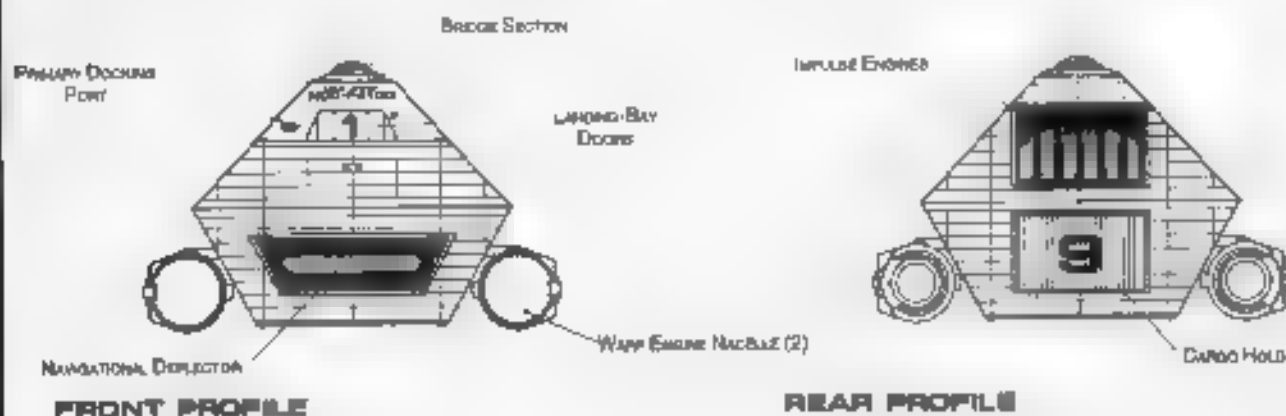
Front Silhouette

Area: 4546.70 m²

SUPPLY TENDER

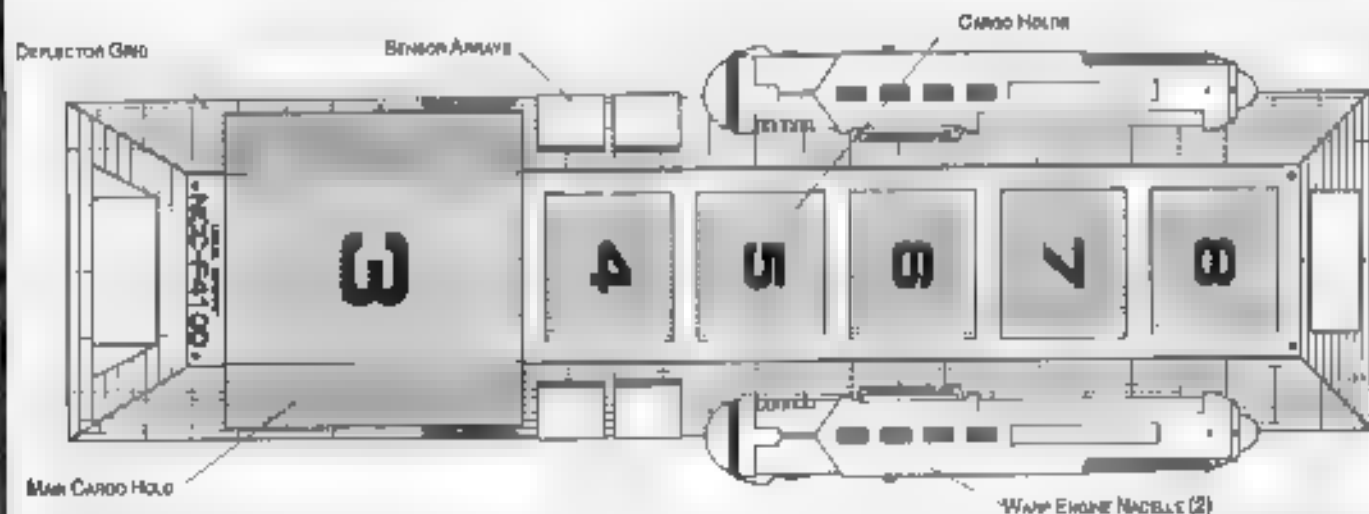


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
50 METERS



SUPPLY TENDER

Ship Names

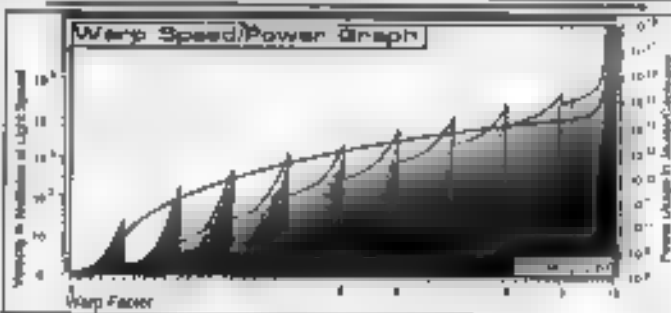
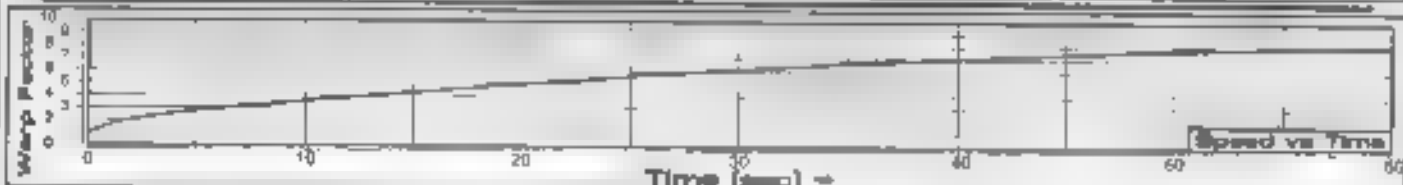
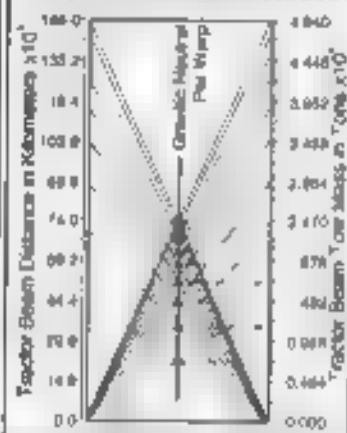
THE FOLLOWING SHIPS OF THE MKS-IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2278.2

ADAMICK NCC-F4142	BRASSA NCC-F4143	MILL DY NCC-F4144	WASON NCC-F4145
ALPHAI NCC-F4146	OLIM NCC-F4147	MILNE NCC-F4148	WATSON NCC-F4149
ALP TPO NCC-F4150	HAYAN NCC-F4151	MUSCHALEK NCC-F4152	WILSON NCC-F4153
ALMENDAL NCC-F4154	HA NCC-F4155	NE HANAWAY NCC-F4156	WILSON NCC-F4157
ALMENDAL NCC-F4158	HANAWAY NCC-F4159	OLIM NCC-F4160	WILSON NCC-F4161
ALMENDAL NCC-F4162	HANAWAY NCC-F4163	OLIM NCC-F4164	WILSON NCC-F4165
ALMENDAL NCC-F4166	HANAWAY NCC-F4167	OLIM NCC-F4168	WILSON NCC-F4169
ALMENDAL NCC-F4170	HANAWAY NCC-F4171	OLIM NCC-F4172	WILSON NCC-F4173
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ALMENDAL NCC-F4182	HANAWAY NCC-F4183	OLIM NCC-F4184	WILSON NCC-F4185
ALMENDAL NCC-F4186	HANAWAY NCC-F4187	OLIM NCC-F4188	WILSON NCC-F4189
ALMENDAL NCC-F4190	HANAWAY NCC-F4191	OLIM NCC-F4192	WILSON NCC-F4193
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ALMENDAL NCC-F4214	HANAWAY NCC-F4215	OLIM NCC-F4216	WILSON NCC-F4217
ALMENDAL NCC-F4218	HANAWAY NCC-F4219	OLIM NCC-F4220	WILSON NCC-F4221
ALMENDAL NCC-F4222	HANAWAY NCC-F4223	OLIM NCC-F4224	WILSON NCC-F4225
ALMENDAL NCC-F4226	HANAWAY NCC-F4227	OLIM NCC-F4228	WILSON NCC-F4229
ALMENDAL NCC-F4230	HANAWAY NCC-F4231	OLIM NCC-F4232	WILSON NCC-F4233
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ALMENDAL NCC-F4242	HANAWAY NCC-F4243	OLIM NCC-F4244	WILSON NCC-F4245
ALMENDAL NCC-F4246	HANAWAY NCC-F4247	OLIM NCC-F4248	WILSON NCC-F4249
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ALMENDAL NCC-F4262	HANAWAY NCC-F4263	OLIM NCC-F4264	WILSON NCC-F4265
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ALMENDAL NCC-F4270	HANAWAY NCC-F4271	OLIM NCC-F4272	WILSON NCC-F4273
ALMENDAL NCC-F4274	HANAWAY NCC-F4275	OLIM NCC-F4276	WILSON NCC-F4277
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ALMENDAL NCC-F4290	HANAWAY NCC-F4291	OLIM NCC-F4292	WILSON NCC-F4293
ALMENDAL NCC-F4294	HANAWAY NCC-F4295	OLIM NCC-F4296	WILSON NCC-F4297
ALMENDAL NCC-F4298	HANAWAY NCC-F4299	OLIM NCC-F4300	WILSON NCC-F4301
ALMENDAL NCC-F4302	HANAWAY NCC-F4303	OLIM NCC-F4304	WILSON NCC-F4305
ALMENDAL NCC-F4306	HANAWAY NCC-F4307	OLIM NCC-F4308	WILSON NCC-F4309
ALMENDAL NCC-F4310	HANAWAY NCC-F4311	OLIM NCC-F4312	WILSON NCC-F4313
ALMENDAL NCC-F4314	HANAWAY NCC-F4315	OLIM NCC-F4316	WILSON NCC-F4317
ALMENDAL NCC-F4318	HANAWAY NCC-F4319	OLIM NCC-F4320	WILSON NCC-F4321
ALMENDAL NCC-F4322	HANAWAY NCC-F4323	OLIM NCC-F4324	WILSON NCC-F4325
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ALMENDAL NCC-F4330	HANAWAY NCC-F4331	OLIM NCC-F4332	WILSON NCC-F4333
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ALMENDAL NCC-F4378	HANAWAY NCC-F4379	OLIM NCC-F4380	WILSON NCC-F4381
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ALMENDAL NCC-F4422	HANAWAY NCC-F4423	OLIM NCC-F4424	WILSON NCC-F4425
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ALMENDAL NCC-F4430	HANAWAY NCC-F4431	OLIM NCC-F4432	WILSON NCC-F4433
ALMENDAL NCC-F4434	HANAWAY NCC-F4435	OLIM NCC-F4436	WILSON NCC-F4437
ALMENDAL NCC-F4438	HANAWAY NCC-F4439	OLIM NCC-F4440	WILSON NCC-F4441
ALMENDAL NCC-F4442	HANAWAY NCC-F4443	OLIM NCC-F4444	WILSON NCC-F4445
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ALMENDAL NCC-F4494	HANAWAY NCC-F4495	OLIM NCC-F4496	WILSON NCC-F4497
ALMENDAL NCC-F4498	HANAWAY NCC-F4499	OLIM NCC-F4500	WILSON NCC-F4501

CLASS SHIP, LOST IN THE LINE OF DUTY. PROPOSED, ALL NAMES PRECEDED WITH U.S.S.

Tractor Beam Specifications

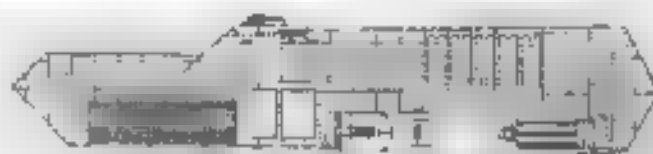
Primary Tractor Beam Load Calculator



Field Length 828.00m
Field Width 828.00m
Field Height 82.84m



Front Warp Field Profile
Cross Section Area 11128.25 m²



Port Warp Field Profile
Cross Section Area 64827.27 m²



Top Warp Field Profile
Cross Section Area 54810.50 m²

WARP FIELDS

SRM3 04:03:04:04

STARFLEET REFERENCE MANUAL

GRIFFIN CLASS

FEDERATION VESSEL

TRANSPORT SHIP



General Information

Specific Role: The Sydney Class Transport Ship is a light-duty interstellar capable personnel/cargo transport vessel. Comfortable accommodations for up to 200 passengers and moderate cargo storage make this Starfleet affiliated vessel one of the most preferable ships for extended travel. Due to its moderate armament this class vessel avoids combat. The Sydney Class transport is often used for Starfleet Cadet training and familiarization with space craft.

Physical Description: The (B5/C/T-2) bridge is centered on top of the Transport's hull is a wedge shaped hull. A (SQ8-A) rectangular navigational deflector is mounted on the nose of vessel. Directly behind the bridge are two (NA5/S2) navigational arrays. This class vessel has four (H12/F6U-2) photon banks located over and under the navigational array and one on each side of the ship just forward of the sensor arrays. The (IRH-6B) 24-IR) impulse drive is located on the rear section of the vessel over the main cargo hold above the rear cargo hatches. Immediately underneath the rear cargo doors is a small hangar bay. For warp propulsion two (SW457, 5S1) nacelles are mounted on (DU-22-6F) support pylons on either side of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated, the transport can maneuver on impulse power for extended periods of time.

Class Emblem

Sydney Class
TRANSPORT SHIP



Ship Silhouettes

Total Target Area 28185.47 m²



Top Silhouette

Area 18859.08 m²



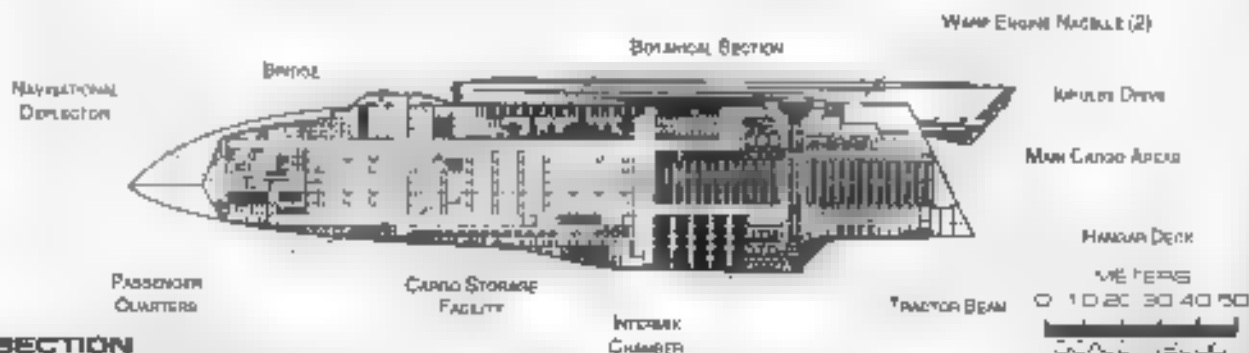
Port Silhouette

Area 8870.34 m²



Front Silhouette

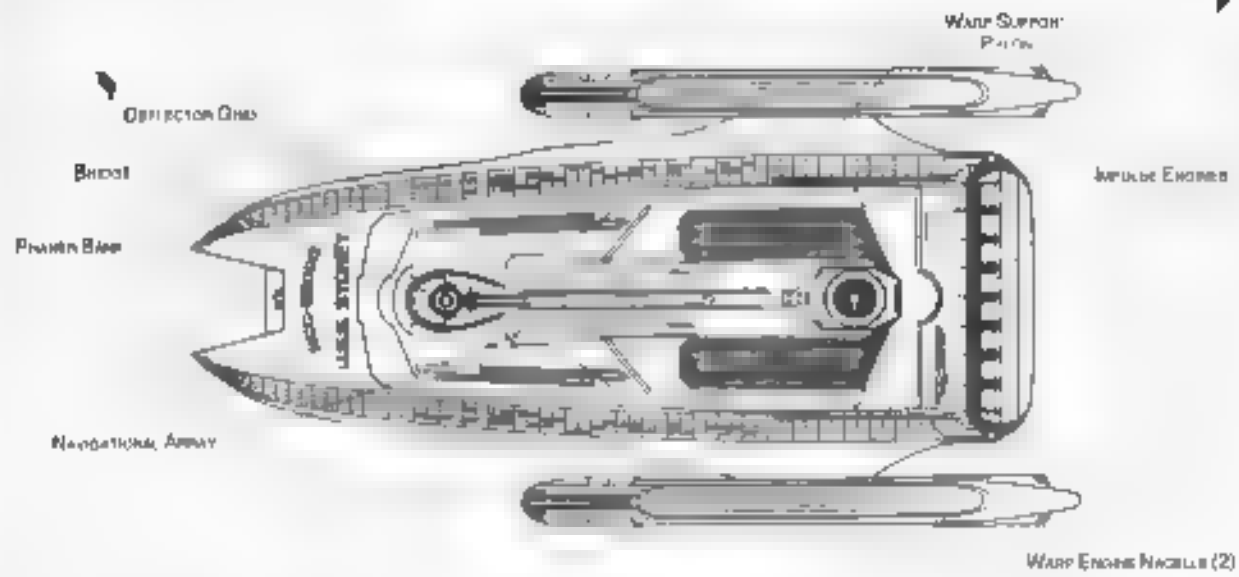
Area 8556.05 m²



Statistics

Upper Bay	0
Lower Bay	0

TRANSPORT SHIP

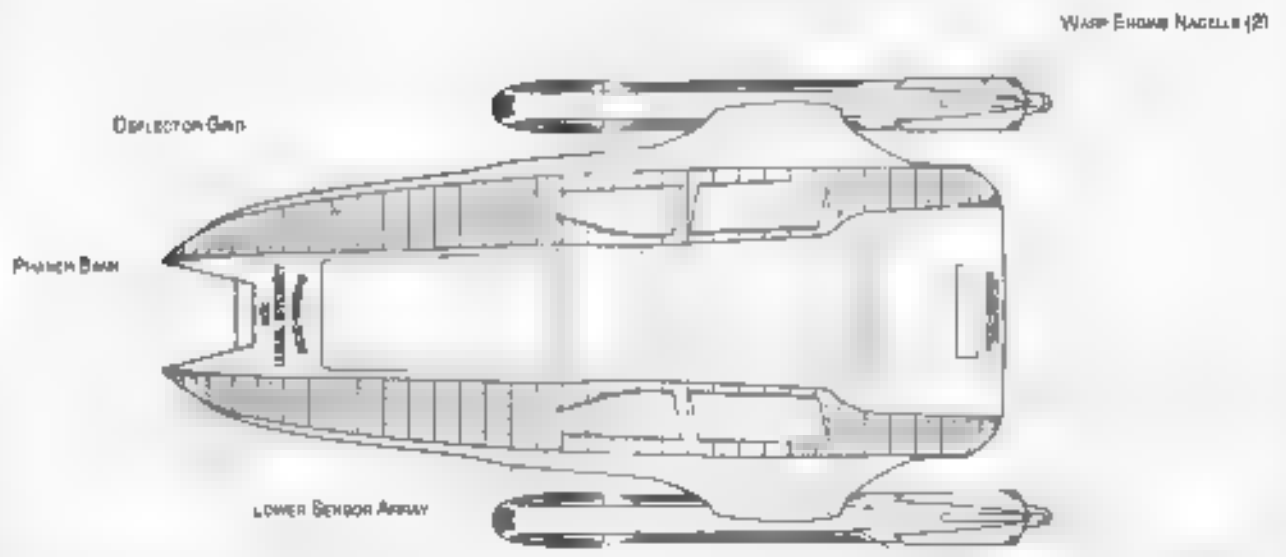


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





TRANSPORT SHIP

SYDNEY CLASS

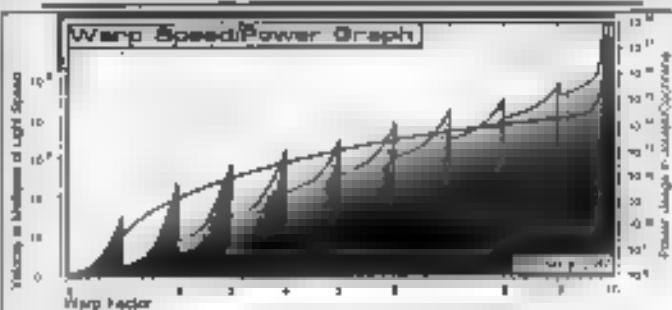
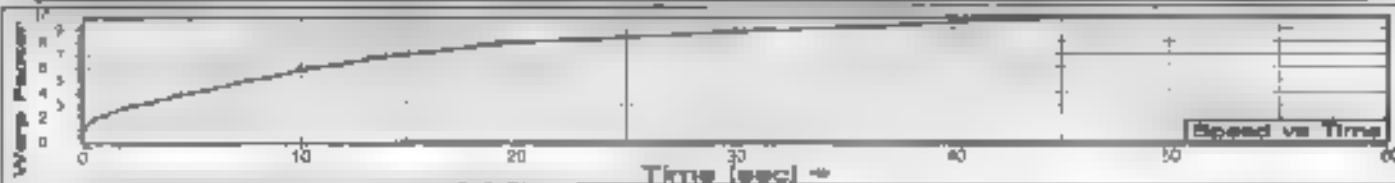
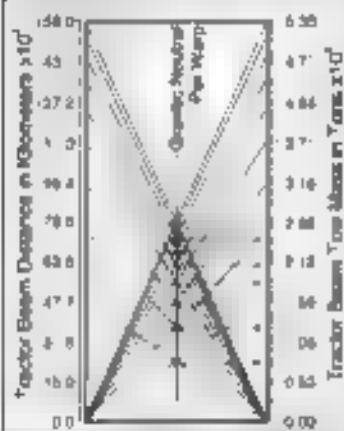
Ship Names

THE FOLLOWING SHIPS OF THE MK2-XX CLASS WERE AUTHORIZED BY THE AMENOSO ARTICLES OF FEDERATION OF STARDATE 2023:

[illegible]

Tractor Beam Specifications

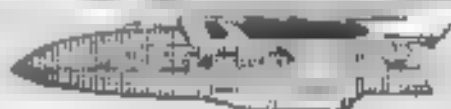
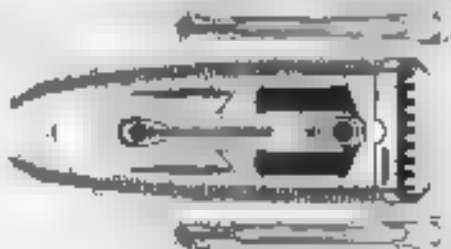
Primary Tractor Beam Load Calculator



Field Length 578.00m
Field Width 100.40m
Field Height 80.00m



Front Warp Field Profile
Cross Section Area 10000.00 m²

Port Warp Field Profile
Cross Section Area 34054.50 m²

Top Warp Field Profile
Cross Section Area 45552.88 m²

FEEDER VESSEL

WARP FIELDS

SAM3 04:03:05:04

STARFLEET REFERENCE MANUAL

DEUTERIUM TANKER

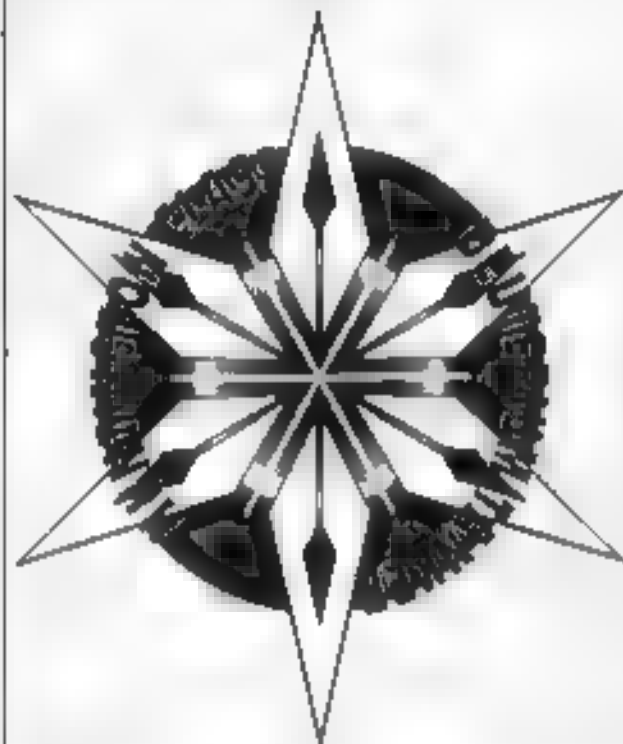


General Information

Specific Role: Deuterium tankers are essential for the supply and refueling of starships. Tankers rarely travel unescorted in hostile areas since just about any space-faring vessel can use deuterium as a fuel source, including pirate vessels. Usually a few fighters accompany the tanker in the shuttle bay. A special fuel shuttle is standard issue with the tanker.

Physical Description: The modular design of the deuterium tanker allows it to be produced relatively inexpensively. The design revolves around a (94/17 x M2) modified secondary hull with a (3826/C 08) standard bridge located over the front. The (DN2/100) main navigational deflector is mounted on the very front of the ship, while a medium hangar bay is located in the rear facing aft. Two deuterium pods, with telescoping fueling booms, are mounted above and below the engineering hull on (107/9 - 25F) connecting dorsals. Two (1-E2/30-20) phaser banks, one on the peak of each connecting dorsal, provide basic defense. Warp speed propulsion is provided by two (SW45/1-56E) warp engine nacelles, mounted toward the rear, and are supported on (DL-35-61) standard pylons. A (30-35E, 4 IR) dual impulse unit is located on the rear of the top tank connecting dorsal. In the event of an emergency the warp nacelles and deuterium pods can be independently jettisoned. The (M35/14-2E) intermix chamber can be ejected through the deflection crystal. The deuterium tanker can cruise on impulse for extended periods of time until help can arrive.

Class Emblem



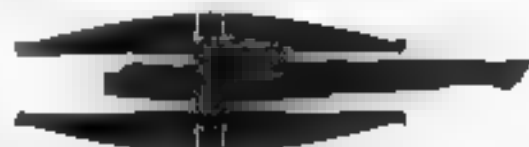
Ship Silhouettes

Total Target Area: 20820.88 m²



Top Silhouette

Area: 16913.91 m²



Port Silhouette

Area: 990.78 m²



Front Silhouette

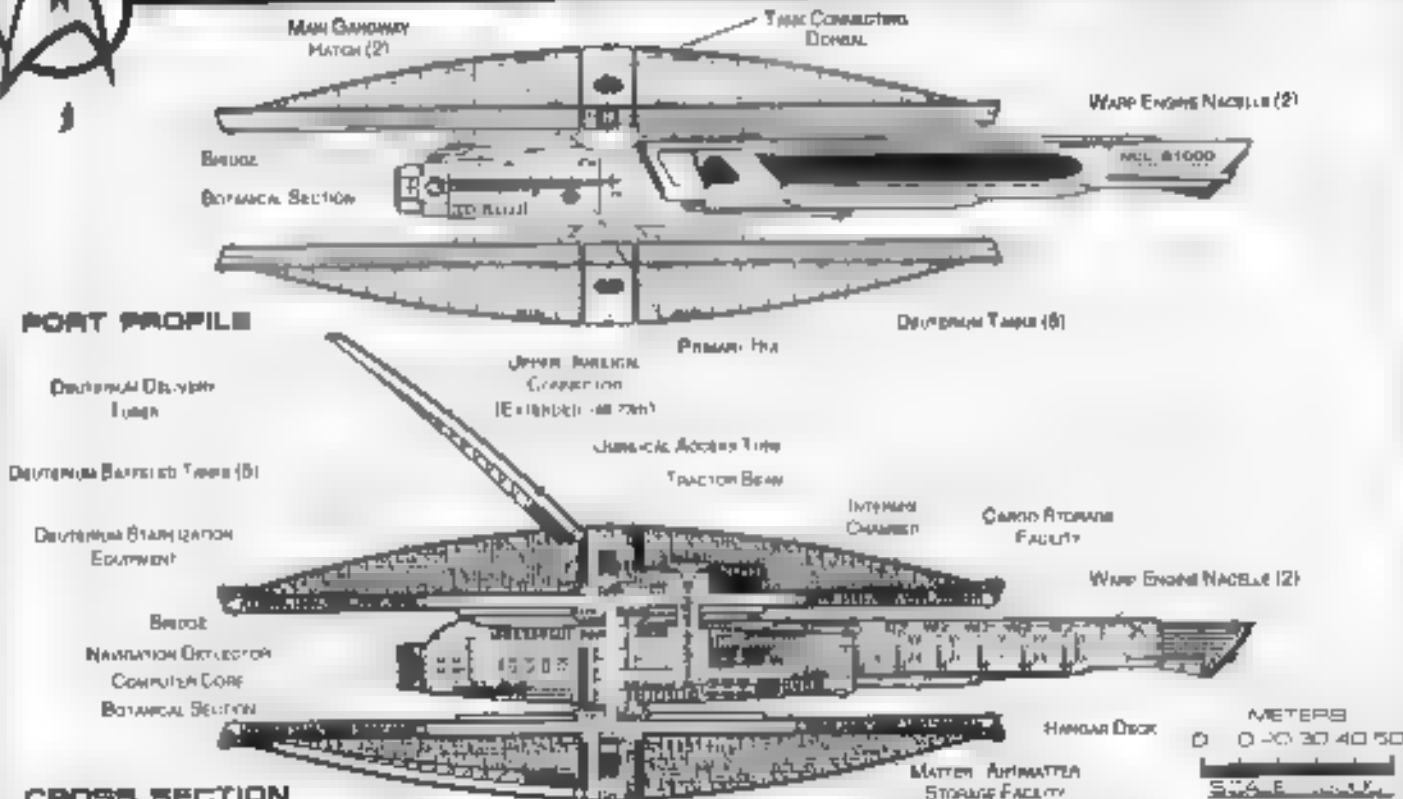
Area: 4104.99 m²



DEUTERIUM TANKER

1000 TON CLASS

1000 TON CLASS



Statistics

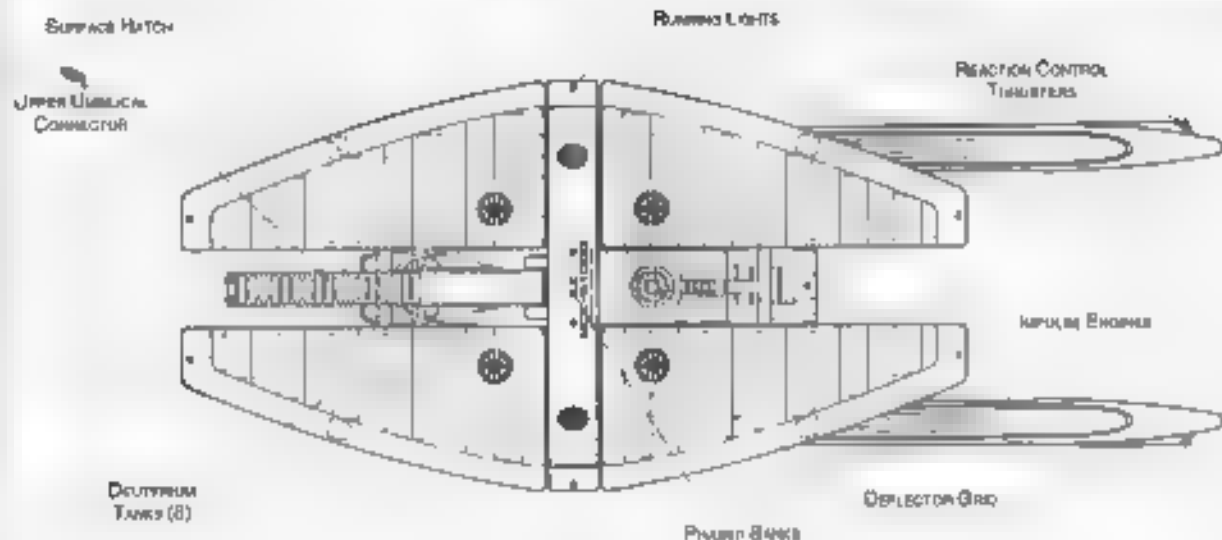
Classification: Deuterium Tanker
Category: Tanker
Class: Harrington
Type: Cargo
Model: MK2 VII
Naval Construction Contract: 61000
Number Proposed: 98
Number Constructed: 98
Number in Service: 98
Number Lost: 0
Identification:
Overall Dimensions (Meters):
 Length: 16.50 m
 Width: 102.48 m
 Height: 70.33 m
Primary Hull Dimensions (Meters):
 Length: 4.48 m
 Width: 24.0 m
 Height: 2.74 m
Secondary Hull Dimensions (Meters):
 Length: 18.54 m
 Width: 102.48 m
 Height: 28.10 m
Warp Unit Dimensions (Meters):
 Length: 14.48 m
 Width: 2.6 m
 Height: 18.12 m
Displacement (Metric Tons):
 Light: 78800 mt
 Standard: 80240 mt
 Full Load: 2.283 mt
Performance:
 Impulse Drive: Dual Unit (IRF226/4-IR)
 Impulse Engine Output: 3.90E+13 W
 Impulse Power Index: 0.81
 Max Cruising: 7
Acceleration Rate:
 0.00-0.25 Impulse: 0.385 sec
 0.25-0.50 Impulse: 1.514 sec
 0.50-0.75 Impulse: 0.187 sec
 0.75-Full Impulse: 0.959 sec
 Warp Units: 2 Nacelle Units (SW45/1-SWT)
 Warp Engine Output: 3.02E+15 W
 Warp Power Index: 0.61

Optimum Speed: 4
Max Safe Cruising: 8
Emergency Speed: 7
Max Speed: 7.5
Destructive Speed: 8
Acceleration Power: 3
Acceleration Time:
 Warp 1 Warp 2: 0.330 sec
 Warp 2 Warp 3: 0.528 sec
 Warp 3 Warp 4: 0.908 sec
 Warp 4 Warp 5: 2.610 sec
 Warp 5 Warp 6: 3.014 sec
 Warp 6 Warp 7: 3.119 sec
 Warp 7 Warp 8: 4.280 sec
 Warp 8 Warp 9: 6.102 sec
 Warp 9 Warp 10: 3.540 sec
 Warp 10 Warp 11: 5.447 sec
 Warp 11 Warp 12: 32.530 sec
Durability (Years):
 Standard: Years
 Maximum: 20 Years
Std. Ship Complement: 82
 Officers: 0
 Crew (Ensign Grade): 43
 Troops: 0
 Passengers: 86
 Emergency conditions: +137.268
Medical Facilities:
 Doctors: 0
 Nurses: 2
 Operating Rooms: 0
 Beds: 5
Laboratories: 6
Important Total: 27
 1 Person: 0
 2 Person: 0
 3 Person: 1
 12 Person: 0
 23 Person: 0
 Small Cargo: 13
 Medium Cargo: 12
 Large Cargo: 0
 Super Cargo: 0

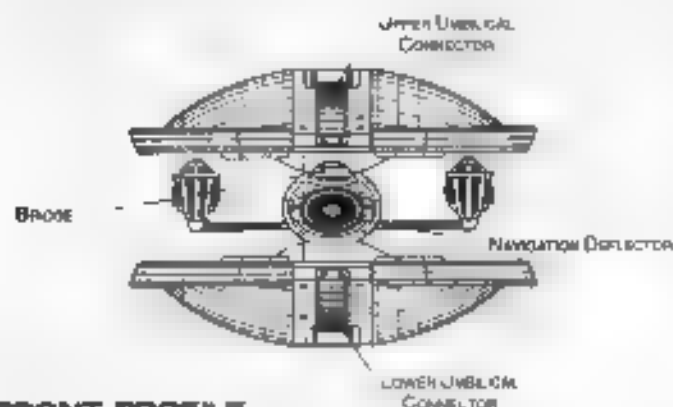
Bridge: 1
Applications: 14
Tractor Beams:
 Tow Capacity: 3.52E+06 mt
 Max Range: 28E+06 km
Cargo Specifications:
 Standard Cargo Units: 2750
 Cargo Capacity: 3.500 mt
Shieldcraft Specifications:
 Docking Ports: 2
 Shuttlecraft Bay Total:
 Small Bay: 0
 Medium Bay: 1
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 18
 Work Base: 2
 Travel Pods: 2
 Aquatic Shuttle:
 Light Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle:
 Tanker Shuttle: 0
 Elder Base: 0
 Light Fighter: 0
 Fighter: 0
 Heavy Fighter: 0
 Lifeboats: 2
 Turbidity (8 person): 2
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.2063
 Stellar Survey: 0.4125
 Short Range: 0.425
 Long Range: 0.8250
 Navigation: 0.418
 Special: 0.1282
Computers: 2
 Type: Daystrom Duetronic II:b
 Type: Daystrom Duetronic II

ECM Index: 0.00
Shield Rating:
 Shield Index: 0.83
 Holdoff Power: 8.39E+11 W
 Refresh Rate: 2.87E+11 W
 Breakdown Rate: 3.20E+11 W
Shield Dimensions (Meters):
 Length: 38.50 m
 Width: 153.72 m
 Height: 106.50 m
Weapons:
 Phase Power Index: 0.080
 Photon Power Index: 0.000
 Vapour Power Index: 0.042
Weapon Placement:
 Beam (Photon) Total: 2 banks 2 each
 Output: 5.00E+11 W 3.7E+11 W
 Range: 2.50E+05 km
 Rate of Fire: 30 ppm Low
 Forward Banks: 0
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 0
 Upper Banks: 0
 Lower Banks: 0
 Beam (Megaphoton) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
 Torpedoes (Photon) Total: 0 Bays
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

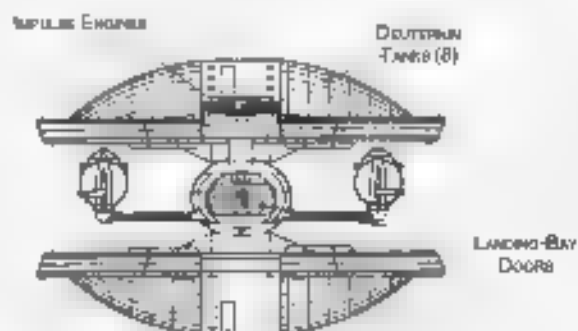
DEUTERIUM TANKER



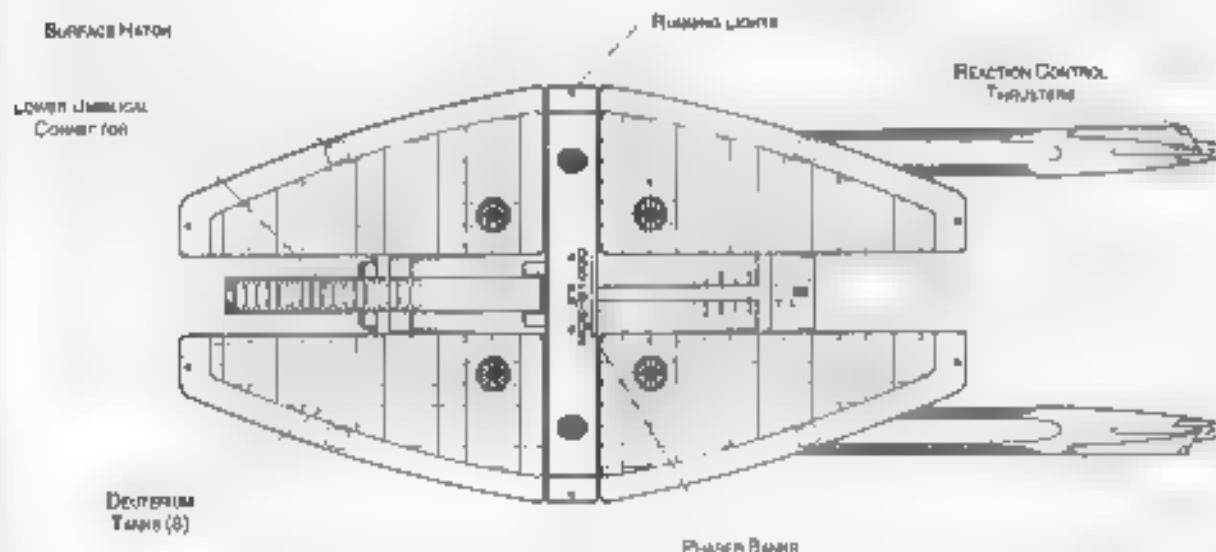
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 20 30 40 50



DEUTERIUM TANKER

Ship Names

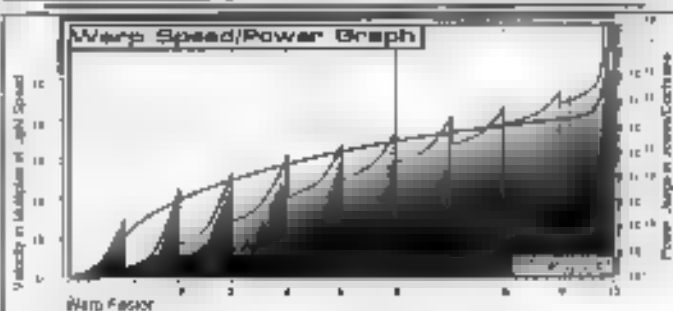
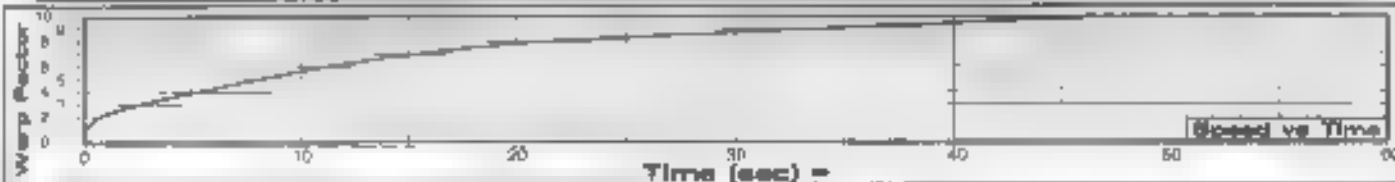
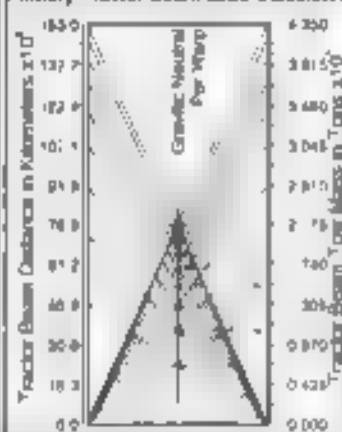
THE FOLLOWING SHIPS OF THE NXE-VII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARGATE 2259.4

ALPHA NX 51001	GAMMA NX 51002	DELTA NX 51003	EPSILON NX 51004
ALPHA NX 51005	DELTA NX 51006	EPSILON NX 51007	DELTA NX 51008
ALPHA NX 51009	DELTA NX 51010	EPSILON NX 51011	DELTA NX 51012
ALPHA NX 51013	DELTA NX 51014	EPSILON NX 51015	DELTA NX 51016
ALPHA NX 51017	DELTA NX 51018	EPSILON NX 51019	DELTA NX 51020
ALPHA NX 51021	DELTA NX 51022	EPSILON NX 51023	DELTA NX 51024
ALPHA NX 51025	DELTA NX 51026	EPSILON NX 51027	DELTA NX 51028
ALPHA NX 51029	DELTA NX 51030	EPSILON NX 51031	DELTA NX 51032
ALPHA NX 51033	DELTA NX 51034	EPSILON NX 51035	DELTA NX 51036
ALPHA NX 51037	DELTA NX 51038	EPSILON NX 51039	DELTA NX 51040
ALPHA NX 51041	DELTA NX 51042	EPSILON NX 51043	DELTA NX 51044
ALPHA NX 51045	DELTA NX 51046	EPSILON NX 51047	DELTA NX 51048
ALPHA NX 51049	DELTA NX 51050	EPSILON NX 51051	DELTA NX 51052
ALPHA NX 51053	DELTA NX 51054	EPSILON NX 51055	DELTA NX 51056
ALPHA NX 51057	DELTA NX 51058	EPSILON NX 51059	DELTA NX 51060
ALPHA NX 51061	DELTA NX 51062	EPSILON NX 51063	DELTA NX 51064
ALPHA NX 51065	DELTA NX 51066	EPSILON NX 51067	DELTA NX 51068
ALPHA NX 51069	DELTA NX 51070	EPSILON NX 51071	DELTA NX 51072
ALPHA NX 51073	DELTA NX 51074	EPSILON NX 51075	DELTA NX 51076
ALPHA NX 51077	DELTA NX 51078	EPSILON NX 51079	DELTA NX 51080
ALPHA NX 51081	DELTA NX 51082	EPSILON NX 51083	DELTA NX 51084
ALPHA NX 51085	DELTA NX 51086	EPSILON NX 51087	DELTA NX 51088
ALPHA NX 51089	DELTA NX 51090	EPSILON NX 51091	DELTA NX 51092
ALPHA NX 51093	DELTA NX 51094	EPSILON NX 51095	DELTA NX 51096
ALPHA NX 51097	DELTA NX 51098	EPSILON NX 51099	DELTA NX 51100

CLASS SHIP, LOST IN THE LINE OF DUTY. PROPOSED. ALL NAMES PREFIXED WITH USS.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



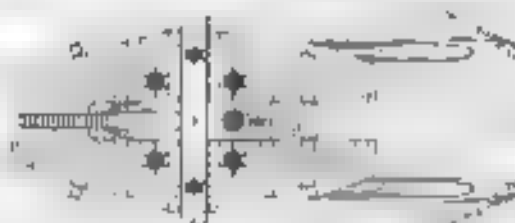
Field Length 834.48m
Field Width 184.18m
Field Height 104.87m



Front Warp Field Profile
Cross Section Area 18080.88 m²



Port Warp Field Profile
Cross Section Area 37348.38 m²



Top Warp Field Profile
Cross Section Area 88818.88 m²

WARP FIELDS

SM3 04:03:06:04

STARFLEET REFERENCE MANUAL

FEDERATION VESSEL

NEUTRONIC FUEL CARRIER

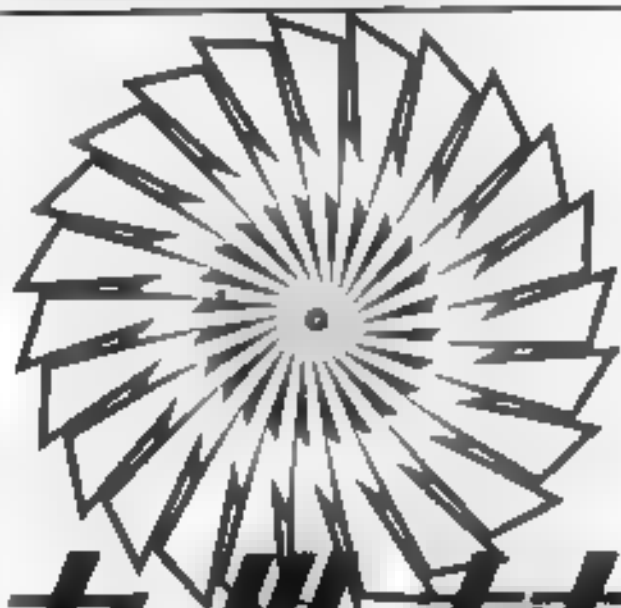


General Information

Specific Role: Neutronic fuel carriers are essential for the supply of fuel to less advanced civilizations that have not yet developed matter-antimatter power systems. Neutronic carriers rarely travel unescorted in hostile areas since some less advanced space-faring vessels can convert the fuel. Usually a few shuttles accompany the tanker in the three small shuttle bays. Although this vessel is an older design, its cheap maintenance cost allow many to remain in service for exceptionally long careers.

Physical Description: The (PF/5/C-13) standard bridge is centered on the top of the rectangular primary hull. The (DN5/A8) main navigational deflector is mounted on the front of the (5H92/C-12N) secondary hull which mainly consists of connecting pylons and access walkways. A small hangar bay faces forward and three other bays face aft. There is standard large storage between the front and rear bays. Storing underneath on (KP/01-7N) pylons are two high capacity module systems capable of holding 50,000 metric tons of neutronic fuel. 4 (14 x 15 ft) panners, two forward, one to the rear and one underneath of the primary hull provide basic defense. Warp speed propulsion is provided by two (SC35/1-45F) self-contained warp engine nacelles mounted on either side, and are supported on (KM/32-6F) standard pylons. A (LRF25B/2-IR) dual impulse unit is located on the rear of the primary hull just under the shuttle bays. In the event of an emergency, the self-contained (SC35/1-45F) warp core/nacelles and neutronic modules can be independently jettisoned and the carrier can continue on impulse until its fuel supply is depleted.

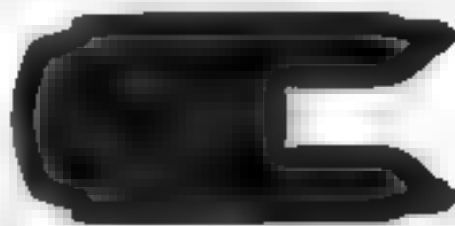
Class Emblem



九条丸
Kobayashi Maru
NEUTRONIC FUEL CARRIER

Ship Silhouettes

Total Target Area: 34204.14 m²



Top Silhouette
Area: 81618.67 m²



Port Silhouette
Area: 7780.86 m²

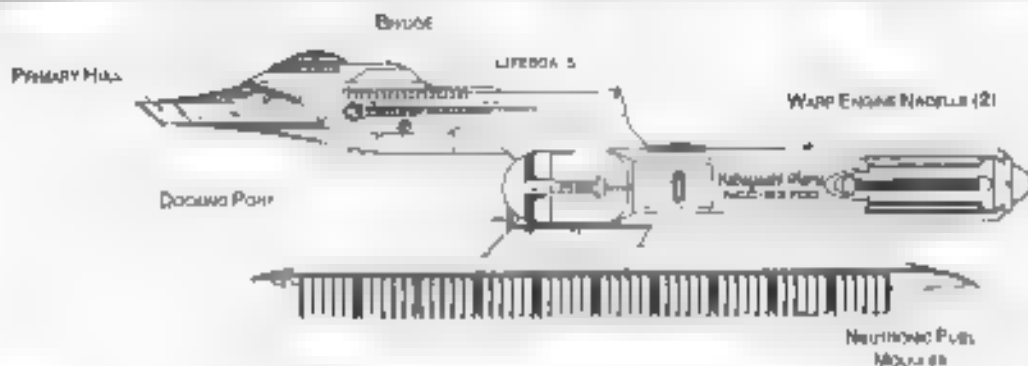


Front Silhouette
Area: 5240.22 m²

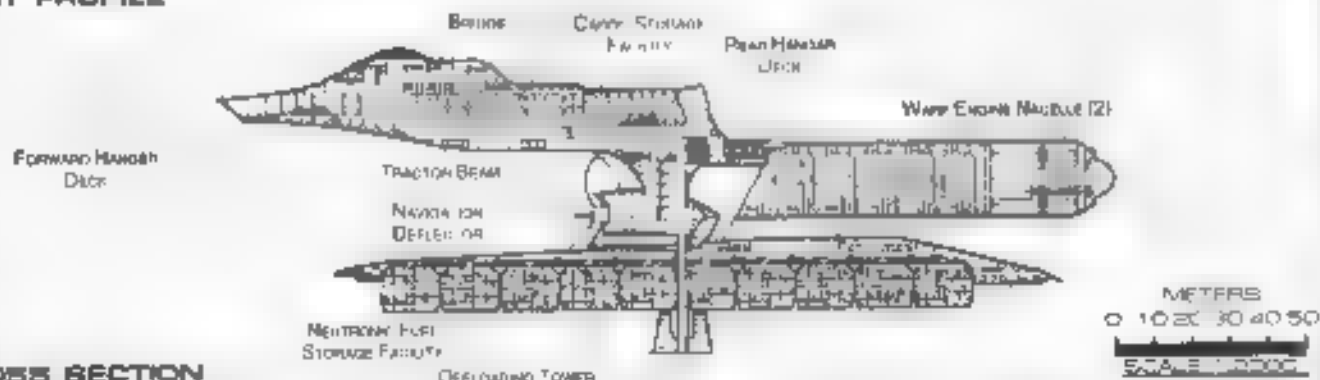


NEUTRONIC FUEL CARRIER

KOBAYASHI MARU CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Neutronic Fuel Carrier

Category: Tanker

Class: Kobayashi Maru

Type: Class 2

Model: MK2-V

Naval Construction Contract: \$3700

Number Produced: 4

Number Constructed: 74

Number in Service: 73

Number Lost:

Dispositions:

Overall Dimensions (Meters)

Length: 237.0 m

Width: 03 m

Height: 70.24 m

Primary Hull Dimensions (Meters)

Length: 276.90 m

Width: 207.67 m

Height: 15.6 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters)

Length: 280.16 m

Width: 46.01 m

Height: 40.67 m

Displacement (Metric Tons)

Light: 36500 mt

Standard: 141043 mt

Full Load: 185162 mt

Performance: mt

Impulse Drive: Dual Unit (HF 250/2-4R)

Impulse Engine Output: 3.00E+13 W

Impulse Power Index: 0.78

Max Cruising C

Acceleration Rate:

0.00-0.25 Impulse: 0.288 sec

0.25-0.50 Impulse: 0.440 sec

0.50-0.75 Impulse: 0.598 sec

0.75-Full Impulse: 0.750 sec

Warp Units: 2 Nacelle Joints (SC254 45F)

Warp Engine Output: 3.02E+13 W

Warp Power Index: 0.78

Optimum Speed: 4

Max Safe Cruising: 8

Emergency Speed: 8.5

Max Speed: 8

Destructive Speed: 8.5

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2 0.258 sec

Warp 2 Warp 3 0.4 sec

Warp 3 Warp 4 1.582 sec

Warp 4 Warp 5 2.248 sec

Warp 5 Warp 6 7.40+ sec

Warp 6 Warp 7 2.506 sec

Warp 7 Warp 8 3.330 sec

Warp 8 Warp 9 4.761 sec

Warp 9 Warp 9.5 10.585 sec

Warp 9.5 Warp 9.75 12.283 sec

Warp 9.75 Warp 9.9 25.430 sec

Duration (Years)

Standard: 0+ years

Maximum: 20 Years

Ship Complement: 8

Officers: 4

Crew (Single Grade): 87

Troops: 0

Passengers: 374

Emergency condition: + 5+4 788

Medical Facilities:

Doctors: 2

Nurses: 5

Operating Rooms: 2

Beds:

Laboratories: 4

Transporters Total: 7

1 Person: 0

2 Person: 0

3 Person: 4

12 Person: 0

32 Person: 4

Small Cargo: 6

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Bridge: 0

Replicators: 1

Time or Beam:

Time Capacity: 4.08E+08 mt

Max Range: 1.38E+06 km

Cargo Specifications:

Standard Cargo Units: 1000

Cargo Capacity: 50000 mt

Shuttlecraft Specifications:

Docking Ports: 4

Shuttlecraft Bays Total: 4

Small Bay: 4

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 22

Work Base: 2

Troop Pods: 2

Aquatic Shuttle: 2

Light Shuttle: 0

Standard Shuttle: 2

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 0

Editor Base: 0

Light Fighter: 0

Fighter: 1

Heavy Fighter: 0

Lifeboats: 20

Turbolift (8 person): 14

Lifeboat (10 person): 10

Lifeboat (20 person): 4

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.2003

Stellar Survey: 0.4+25

Short Range: 0.4+25

Long Range: 0.6260

Navigation: 0.0005

Special: 0.000

Comps: 2

Type: Daystrom Neutronic IIa

Type: Daystrom Neutronic IIa

SCM Index: 0.50

Shield Rating:

Shield Index: 0.44

Bolt/Power: 4.63E+ W

Refresh Rate: 40E+ W

Breakdown Rate: 1.88E+ W

Shield Dispersal (Meters)

Length: 355.52 m

Width: 180.55 m

Height: 106.36 m

Weapons:

Phaser Power Index: 0.083

Photon Power Index: 0.000

Vessel Power Index: 0.042

Weapon Placement:

Beam (Phaser) Total: 2 banks 2 each

Output: 3.00E+1 W 2 SE: W

Range: 2.00E+04 km

Rate of Fire: 30 ppm Cont.

Forward Banks:

Rear Banks:

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhaser) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

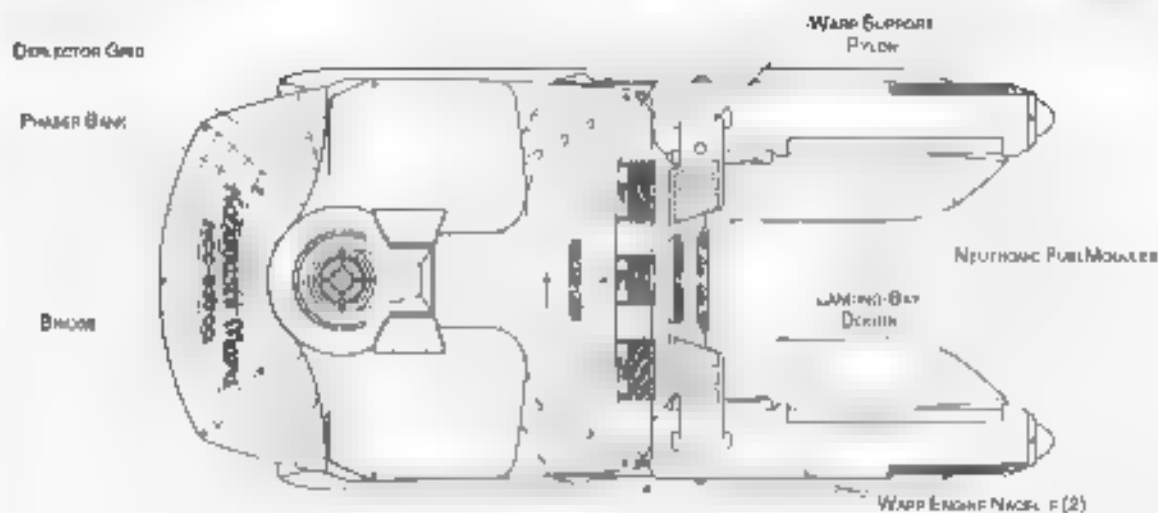
Starboard Bay: 0

Upper Bay: 0

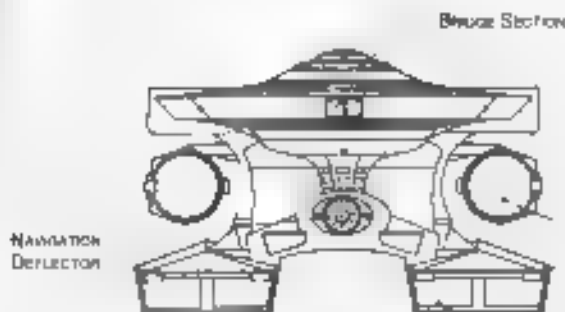
Lower Bay: 0

FEDERATION VESSEL

NEUTRONIC FUEL CARRIER

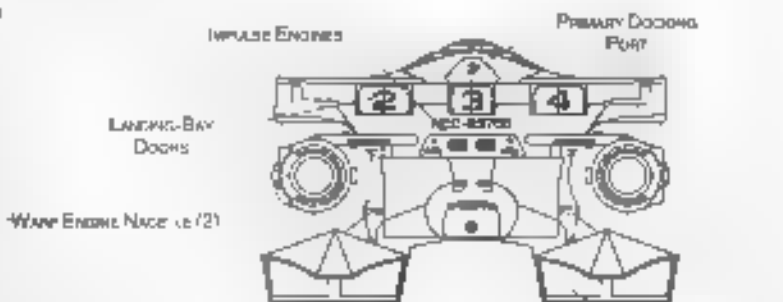


TOP PROFILE



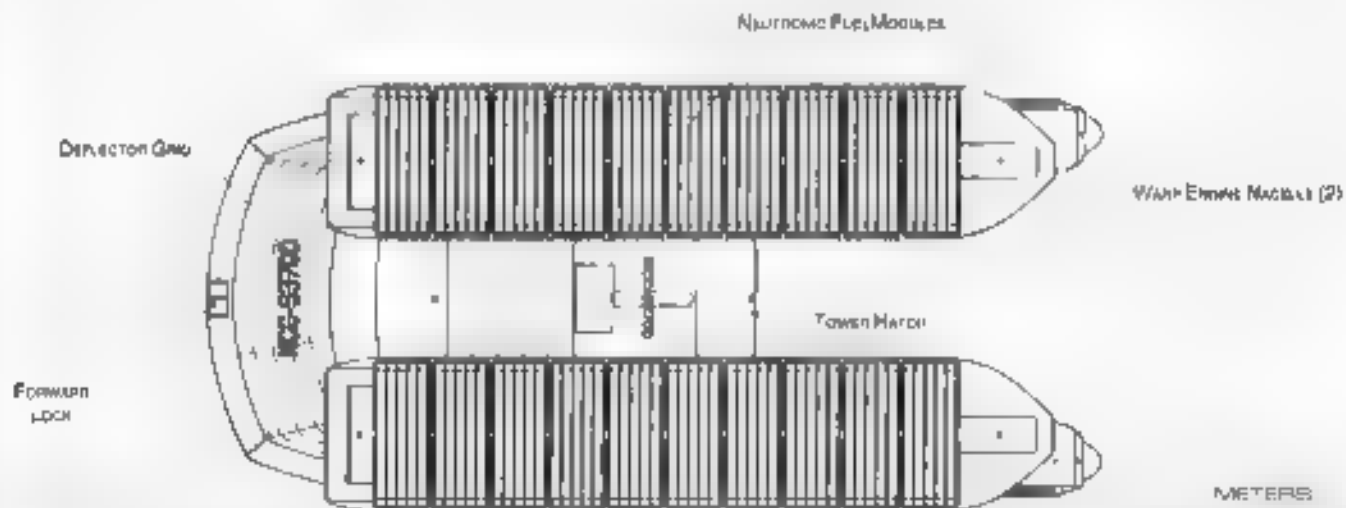
FRONT PROFILE

NEUTRONIC FUEL MODULES

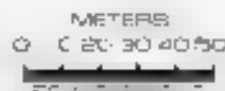


REAR PROFILE

NEUTRONIC FUEL MODULES



BOTTOM PROFILE

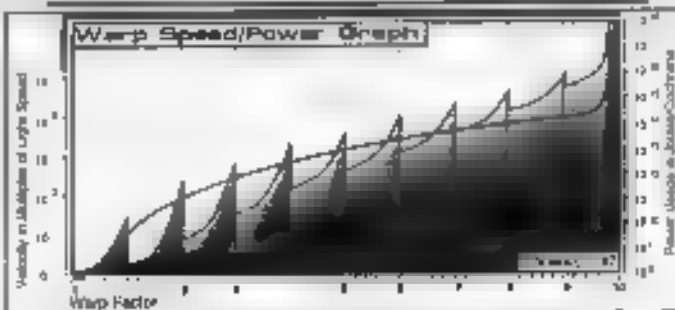




Ship Names

[illegible]

Tractor Beam Specifications



Field Length 530.18m
Field Width 144.02m
Field Height 88.27m



Front Warp Field Profile
Cross Section Area 17352.01 m²

Port Warp Field Profile
Cross Section Area 3800^{1.22} m²

Top Warp Field Profile
Cross Section Area: 78108.04 m²

WARP FIELDS

SRM3 04:03:07:04

STARFLEET REFERENCE MANUAL

KOBAYASHI MARU CLASS

FEDERATION VESSEL

STARLINER



General Information

Specific Role: The Rising Star Class Starliner is designed to provide uncrowded luxurious accommodations for up to 2000 passengers. The unusually large circular botanical level occupies the rim of the ship and has large windows giving a unsurpassed view of the stars. The Starliner also incorporates exceptionally comprehensive recreation facilities such as holodecks and gyms. Many races choose to tour the Federation on these ships, the full tour takes seven years, but many smaller one and two month cruises are offered as well. Only one starliner has ever been lost.

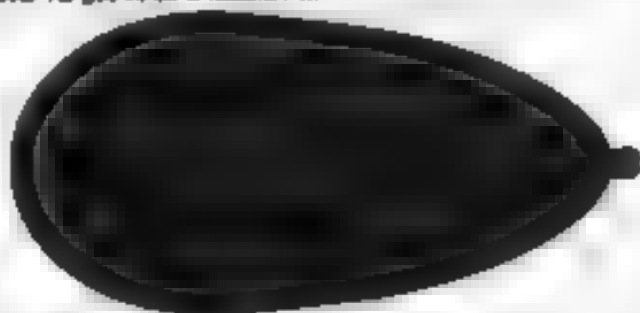
Physical Description: The (IS12/C P5) standard bridge is centrally located atop the expansive hull. Centrally located underneath the hull is the (IN8/tN) navigation dome assembly. The lower hull incorporates the forward facing (IN7 A10) main deflector dish, cargo storage and three medium hangar bays facing aft. Defense is provided by four B-2 (B-2S) phaser banks three on top and one underneath the front of the hull. Warp speed propulsion is provided by a (SW104/2 J05L) high density warp nacelle mounted high on the rear portion of the vessel and can be jettisoned in an emergency. A TRF55E/2 (R, dual) impulse unit is located under the rear of the engineering section aft of the shuttle bays. In an emergency the (M65/22 J.E) antimatter chamber can be ejected through the deflector crystal. The matter/antimatter storage facility is positioned between the shuttle bays and deflection crystal for jettisoning if necessary. If the warp nacelle or matter/antimatter storage facility have to be jettisoned the starliner can continue on impulse for extended periods of time until help can arrive.

Class Emblem



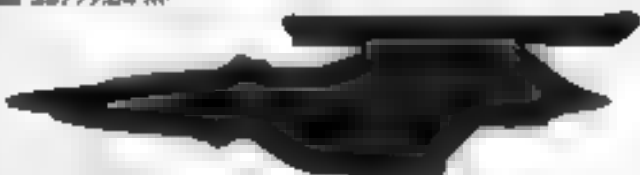
Ship Silhouettes

Total Target Area 54008.01 m²



Top Silhouette

Area 28777.04 m²



Area 13713.00 m²



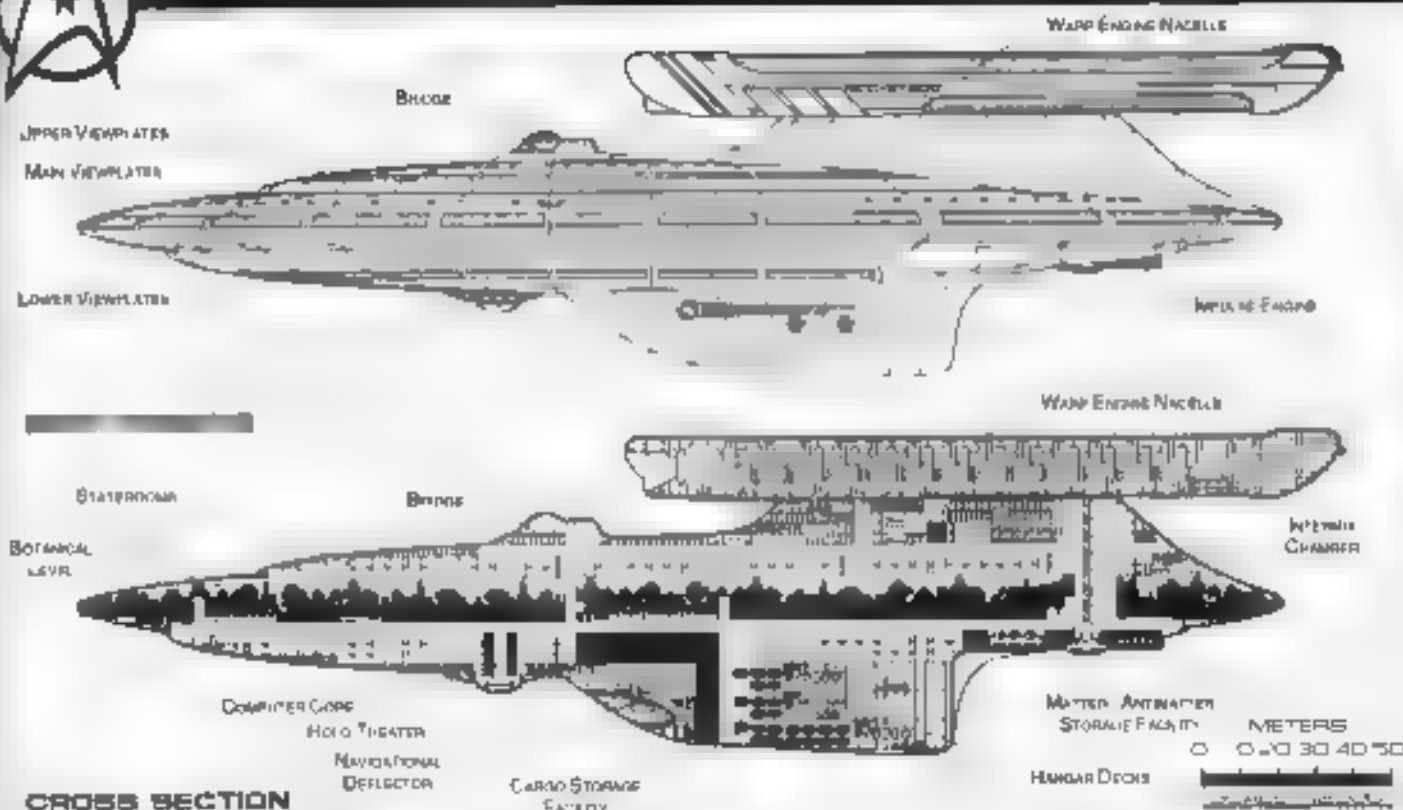
Front Silhouette

Area 4520.01 m²



STARLINER

CLASSIC STAR CLIPART



CROSS SECTION

Statistics

Classification: Starliner
Category: Starliner
Class: Rary Star
Type: Class 2
Model: VN2-X
Naval Construction Contract: 51200
Number Produced: 88
Number Constructed: 88
Number in Service: 87
Number Lost: 1
Dimensions:
Overall Dimensions (Meters):
 Length: 318.54 m
 Width: 52.4 m
 Height: 8.56 m
Primary Hull Dimensions (Meters):
 Length: 30.28 m
 Width: 52.4 m
 Height: 8.56 m
Secondary Hull Dimensions (Meters):
 Length: N/A m
 Width: N/A m
 Height: N/A m
Warp Unit Dimensions (Meters):
 Length: 5 m
 Width: 26.84 m
 Height: 8.56 m
Displacement (Metric Tons):
 Light: 15040 mt
 Standard: 485.73 mt
 Full Load: 54.008 mt
Performance: NA
Impulse Units: Dual Unit DRF55E/2-IR
Impulse Engine Output: 80F+ 3 W
Impulse Power Index: 3.21
Max Cruising: C
Acceleration Rate:
 0-00-0.28 Impulse: 0.488 sec
 0.28-0.50 Impulse: 0.796 sec
 0.50-0.75 Impulse: 0.983 sec
 0.75-Full Impulse: 2.29 sec
Warp Delta: Nacelle JNB 15W1042-10SL
Warp Engine Output: 2.72E+ 5 W
Warp Power Index: N/A

Optimum Speed: 4
Max Safe Cruising: 8
Emergency Speed: 7
Max Speed: 7.2
Destructive Speed: 7.5
Acceleration Power: 3
Acceleration Times:
 Warp 1 Warp 2: 0.94 sec
 Warp 2 Warp 3: 505 sec
 Warp 3 Warp 4: 5.69 sec
 Warp 4 Warp 5: 0.84 sec
 Warp 5 Warp 6: 8.749 sec
 Warp 6 Warp 7: 0.454 sec
 Warp 7 Warp 8: 4.35 sec
 Warp 8 Warp 9: 7.356 sec
 Warp 9 Warp 9.5: 18.575 sec
 Warp 9.5 Warp 9.75: 44.664 sec
 Warp 9.75 Warp 9.8: 92.66

Detailing (Years):
 Standard: 7 Years
 Maximum: 28 Years
Mid-Ship Commission: #00
 Officers: 05
 Crew (Knight Grade): 315
 Troops: 20
 Passengers: 2000
 Emergency conditions: + 302+ 98
Medical Facilities:
 Doctors: 7
 Nurses: 18
 Operating Rooms: 13
 Beds: 82

Laboratories: 15
Transceptors Total: 58
 1 Person: 0
 2 Person: 0
 3 Person: 20
 4 Person: 0
 5 Person: 20
 6 Person: 20
 7 Person: 20
 8 Person: 20
 9 Person: 20
 10 Person: 20
 11 Person: 20
 12 Person: 20
 13 Person: 20
 14 Person: 20
 15 Person: 20
 16 Person: 20
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 96 Person: 20
 97 Person: 20
 98 Person: 20
 99 Person: 20
 100 Person: 20

Bridge: 29
Applications: 80
Tractor Beam:
 Tow Capacity: 8.73E+05 mt
 Max Range: 68E+05 km
Cargo Specifications:
 Standard Cargo Units: 1000
 Cargo Capacity: 50000 mt
Shuttlecraft Specifications:
 Docking Ports: 4
 Shuttlecraft Bays Total: 3
 Small Bay: 0
 Medium Bay: 3
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 83
 Work Base: 16
 Travel Pods: 24
 Aquatic Shuttle: 3
 Light Shuttle: 2
 Standard Shuttle: 24
 Heavy Shuttle: 3
 Cargo Shuttle: 8
 Assault Shuttle: 0
 X-100: 0
 Light Fighter: 0
 Fighter: 11
 Heavy Fighter: 0
 Lifboats:
 Taskforce (8 person): 73
 Lifboat (10 person): 95
 Lifboat (20 person): 40
 Lifboat (30 person): 3

Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.2083
 Stellar Survey: 0.4.25
 Short Range: 0.4125
 Long Range: 0.8250
 Navigation: 0.3900
 Special: 0.0850
Computers: 2
 Type: Daystrom Electronic 18h
 Type: Daystrom Electronic 11h

KCM Index: 0.50
Shield Rating:
 Shield Index: 0.16
 Holdoff Power: 78E+ W
 Refresh Rate: 507E 0 W
 Breakdown Rate: 8.09E+ 0 W
Shield Dimensions (Meters):
 Length: 477.8 m
 Width: 228.2 m
 Height: 122.84 m
Weapons:
 Phase Power Index: 0.57
 Photon Power Index: 0.000
 Vessel Power Index: 0.083
Weapon Placement:
 Beam (Phasers) Total: 4 banks 2 each
 Output: 5.0E+ W 2.5E W
 Range: 2.8E+05 km
 Rate of Fire: 30 ppm Com
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 1
 Starboard Banks: 1
 Upper Banks: 0
 Lower Banks: 0
 Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
 Torpedoes (Phasers) Total: 0 Bays
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

CLASSIC STAR CLIPART

[illegible]



Ship Names

Tractor Beam Specifications

Primary Tractor Beam Load, kg/cm^2

AMENDED ARTICLES OF INCORPORATION OF STARBUCKS, INC.

ARTICLE I: PURPOSE AND SCOPE

ARTICLE II: CAPITAL STOCK

ARTICLE III: MANAGEMENT AND AFFILIATES

ARTICLE IV: DIVIDENDS AND DISTRIBUTIONS

ARTICLE V: AMENDMENTS

ARTICLE VI: MISCELLANEOUS

ARTICLE VII: SEVERABILITY

ARTICLE VIII: ENTIRE AGREEMENT

ARTICLE IX: GOVERNING LAW

ARTICLE X: SIGNATURES

ARTICLE XI: EFFECTIVE DATE

ARTICLE XII: FURTHER AMENDMENTS

ARTICLE XIII: WITNESSES

ARTICLE XIV: CORPORATE SEAL

ARTICLE XV: FILING AND RECORDS

ARTICLE XVI: NOTICE

ARTICLE XVII: WAIVER OF NOTICE

ARTICLE XVIII: CONFIRMATION

ARTICLE XIX: CERTIFICATION

ARTICLE XX: MISCELLANEOUS

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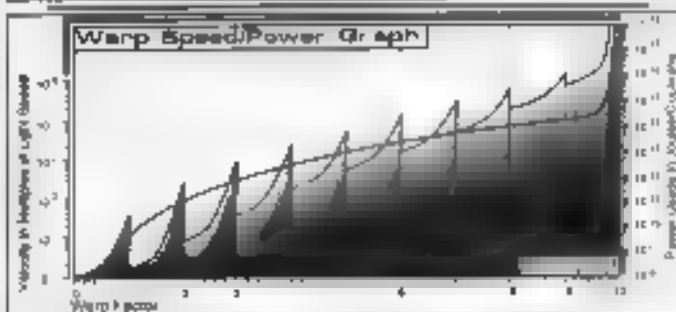
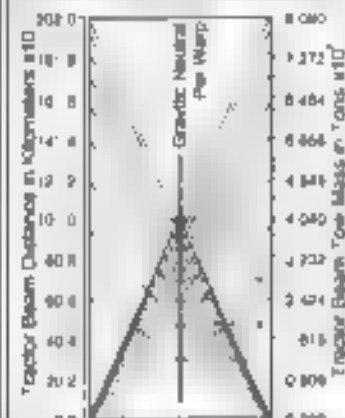
ARTICLE LXXXXXXXXXIV: FURTHER AMENDMENTS

ARTICLE LXXXXXXXXXV: WITNESSES

ARTICLE LXXXXXXXXXVI: CORPORATE SEAL

ARTICLE LXXXXXXXXX

CLASS III. DIED IN THE LINE OF DUTY. "PROPOSED ALL NAMES PRECEDED WITH U.S.M.



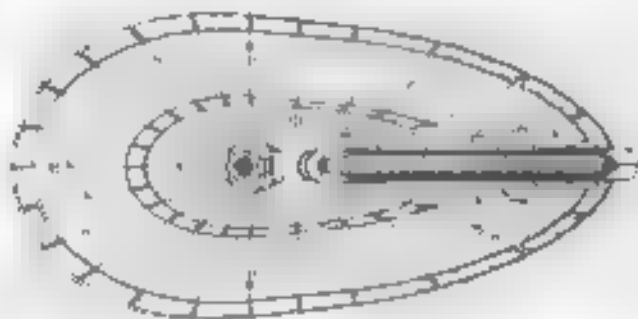
Field Length 200.53m
Field Width 18.16m
Field Height 101.81m



Front Warp Field Profile
Cross Section Area 14132.40 m²



Fort Werp Field Profile
 Gross Surface Area 4811458 m²



Top Warp Field Profile
Cross Section Area 67485.74 m²

WARP FIELDS

SAM3 04:03:08:04

STARFLEET REFERENCE MANUAL

PHILLIPS 66

FEDERATION WEISS

BUOY TENDER



General Information

Specific Role: Buoy tenders are required to install and service the millions of buoys used by the Federation to provide safe travel references within the boundaries of explored space. The construction of the buoy tender is quite simple and cost effective, allowing several ships to be produced each year. Two separate dual impulse units provide precision low speed maneuvering and reliability. When not performing buoy duties, a rare occurrence, these ships can be found deserted at any port of call where the crews take small breaks from their tedious duties.

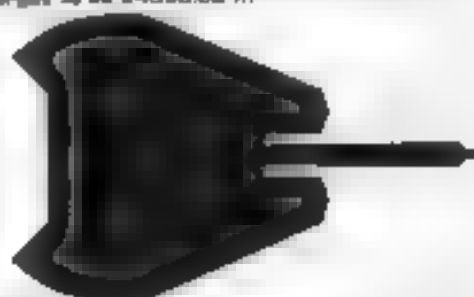
Physical Description: The BS20/C UH bridge is centered on the (PH320/C L5) modified primary hull. Three medium hangar bays are bracketed by two (A5, 132) navigational deflector/buoy containment arrays on the front end away of the primary hull. Defense is provided by five (31/2/60-2C) phaser banks, three on top and two underneath. Two (IR-70/E/8-R) dual impulse units on the rear of the hull extension provide sublight propulsion. Located between the impulse drives is another medium hangar bay. To the rear of the hull are the M80/2H 410 intermix chamber and matter, antimatter storage tanks. The storage tanks are located behind the impulse engines for emergency jettisoning. In the event of an emergency the primary hull can jettison the warp core and warp nacelle and proceed on impulse power.

Class Emblem

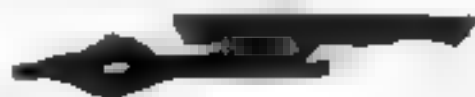


Ship Silhouettes

Total Target Area: 24090.08 m²



Top Silhouette
Area: 17227.49 m²



Port Silhouette
Area: 4926.44 m²



Front Silhouette
Area: 2136.15 m²



NIPPEN CLASS

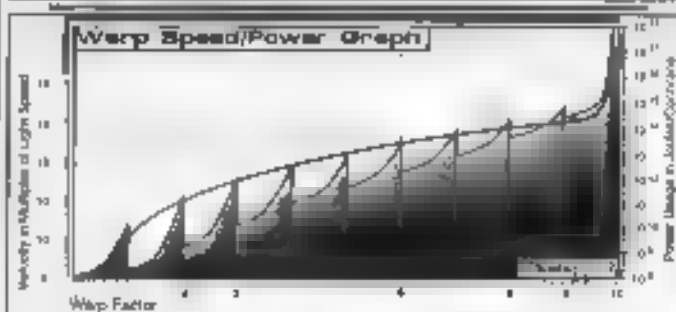
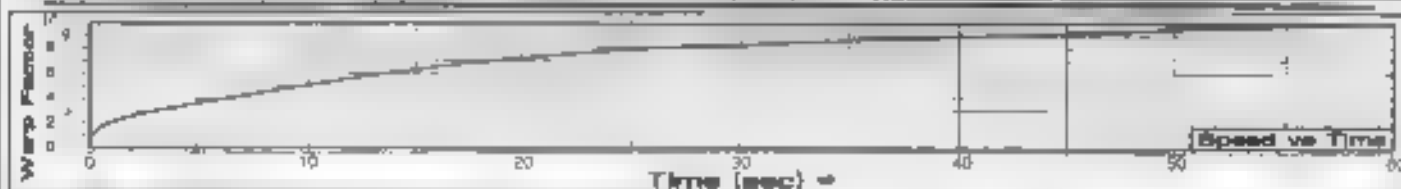
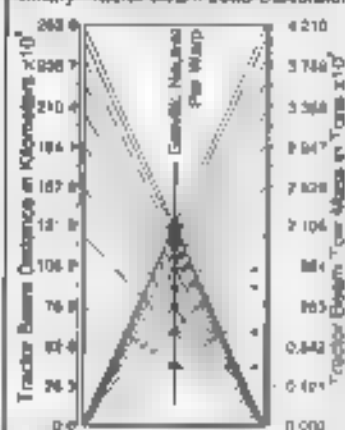
THE FOLLOWING SHIPS OF THE MKB-1 CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2000.0

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CLASSIFIED. LEFT IN THE LINE OF DUTY. "PROCESSED. ALL NAMES PRECEDED WITH U.S.G.

Tractor Beam Specifications

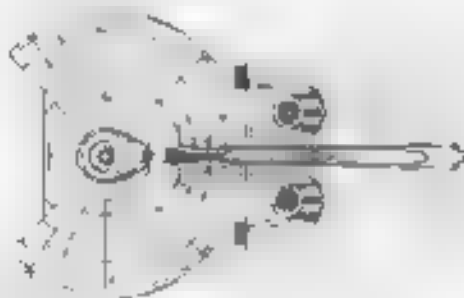
Primary Traction (Horn) Loan Conclusion



Field Length: 5-6m 1 4m
Field Width: 1 57.50m
Field Height: 25-45m



Front Warp Field Profile
Cross Section Area 11500.18 m²

Port Wasp Field Profile
Cross Section Area: 20225.88 m²

Top Warp Field Profile
East Section Area: 40004.50 m²

WARP FIELDS

SRM3 04:03:09:04

STARFLEET REFERENCE MANUAL

FEDERATION OF MEDICAL SOCIETIES OF THE UNITED STATES OF AMERICA

HEAVY TUG



General Information

Specific Role: The Faranarton Class Heavy Tug is based on the Kobayashi Maru hull. These tugs are widely used in ship-yards and space-dock construction facilities. Several work bees are stored in the hangar bays for non-propelling small tasks. Although this vessel is an older design, its cheap maintenance cost allow many to remain in service for exceptionally long careers.

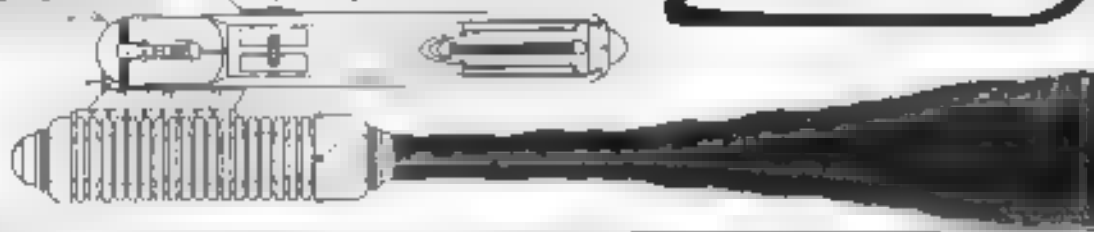
Physical Description: The (FC5/C P3) standard bridge is centered on the top of the rectangular primary hull. The (DN5/A9) main navigation deflector is mounted on the front of the (SH92/C L2N) secondary hull which mainly consists of connecting pylons and access walk-ways. A small hangar bay faces forward and three more bays face aft. There is standard cargo storage between the front and rear bays. Sensing underneath the (PF25/5N) pylons are two (FH1,000/2) heavy duty extended cycle tractor beam emitters, four (SL 7/15 TC) shapers, two forward, one to the rear and one underneath of the primary hull provide basic defense. Warp speed propulsion is provided by two (SC 35/1 45M) self contained warp engine nacelles, mounted to either side and are supported by (KM 32.6P) standard pylons. A (HF25K/2-R) dual impulse unit is located on the rear of the primary hull just under the shuttle bays. In the event of an emergency, the self contained warp core, nacelles and nuclear modules can be independently jettisoned and the carrier can continue on impulse until its fuel supply is depleted.

Class Emblem



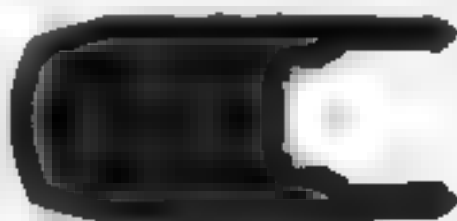
Faranarton Class

Heavy Tug



Ship Silhouettes

Total Target Area 30888.21 m²



Top Silhouette
Area 18542.78 m²



Port Silhouette
Area 7048.98 m²



Front Silhouette
Area 5274.05 m²

HEAVY TUG



DEFLECTOR GRID

PULSAR BANK

BRIDGE

WARP SUPPORT
PYLONLANDING-BAY
DOORS

WARP ENGINE NOZZLES (2)

TOP PROFILE

BRIDGE SECTION

IMPL. OF ENGINES

PRIMARY DOCKING
PORTNAVIGATION
DEFLECTORLANDING-BAY
DOORS

WARP ENGINE NOZZLES (2)

FRONT PROFILE

FORWARD TACTIC
BEAM EMITTER

REAR PROFILE

REAR TACTIC
BEAM EMITTER

DEFLECTOR GRID

TRACTOR BEAM HOUSING

WARP ENGINE NOZZLES (2)

FORWARD
LOCK

BOTTOM PROFILE

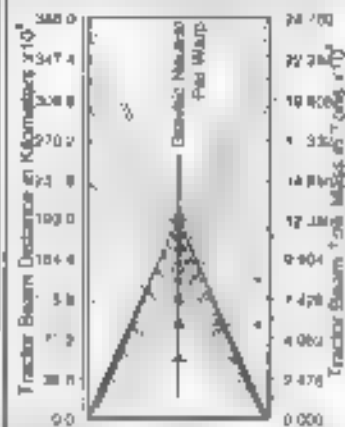
METERS
0 10 20 30 40 50



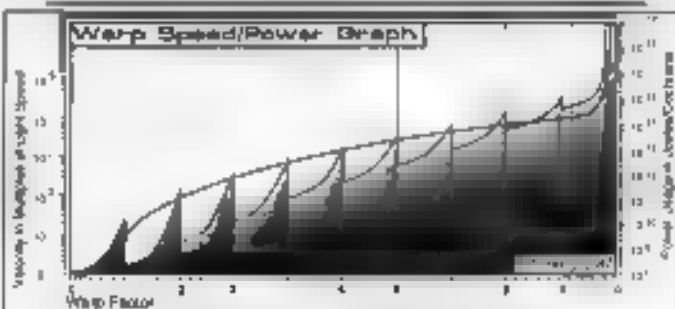
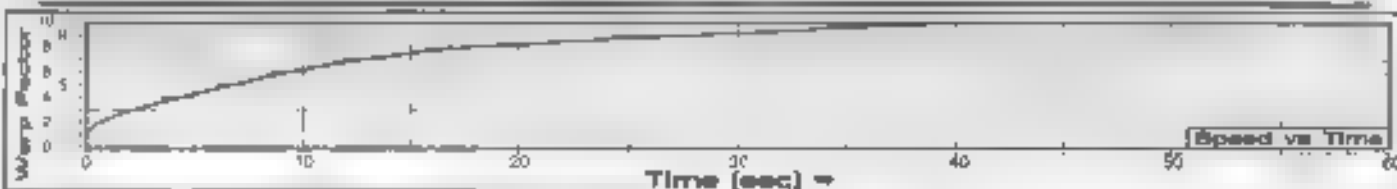
FAHIANAPTON CLASS

Tractor Beam Specifications

Primary Transfer Beam Load Calculations



CLASSSHIP, LOYALTY IN THE LINE OF DUTY. PROPERLY, ALL NAVAL PERSONNEL WITH U.S.



Field Length 545.00m
Field Width 177.08m
Field Height 94.36m



Front Warp Field Profile
Cross Section Area: 13000.00 m²



Port Warp Field Profile
Crane Station Area 87000.00 m²



Top Warp Field Profile
Cross Section Area 2150sqm m²

WARP FIELDS

SAM3 04:03:10:04

STARFLEET REFERENCE MANUAL

FEDERATION VESSE

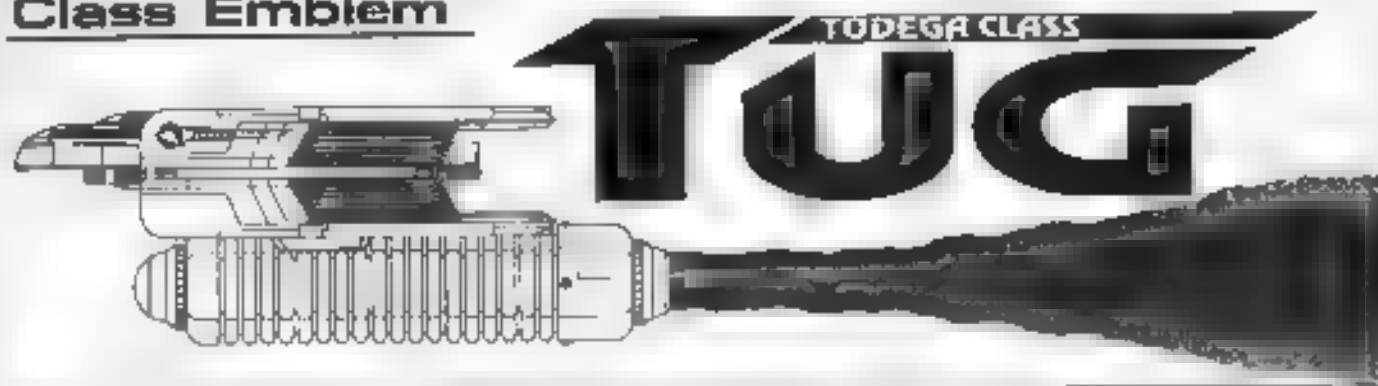


General Information

Specific Role: The Todega Class Tug with four warp nacelles is a highly efficient tractor-beam workhorse and can be found throughout the Federation. Tugs are used extensively moving ships and station facilities around which are unable to propel themselves. As a cost saving measure the hull is a modified Oberth Class research vessel upper section.

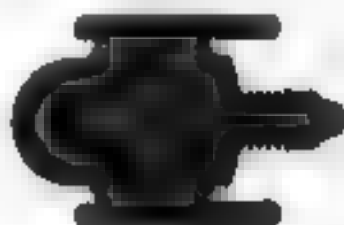
Physical Description: The (S-103/A T8) primary hull is equipped with additional power conduits and backup systems. The vessel is equipped with a (B75/A C5) bridge which incorporates additional navigational instrumentation. On the lower part of the hull is the (SM15/4C) main sensor array and (DN2/Z18) navigational dome. Positioned forward of the bridge is a (D'2/ W 2C) phaser bank. At the rear of the primary hull are two (SR10K 2 SA) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated by four (SC 58/ 2187) warp nacelles attached to each side of the hull. Running horizontally between the nacelles is the (M24/ 1 21) internal channel. Insulated to the rear of the hull are the (AM1 5 21) matter/ antimatter storage tanks for emergency re-boarding. On the front of the hull is a small launch deck. Strung underneath the primary hull by two (TC 30 15G) connecting dorsals is a (T11 C 192) tractor beam emitter. In the event of an emergency the primary hull can separate from one or more of the warp nacelles and proceed on the remaining nacelle(s) or impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 10468.00 m²



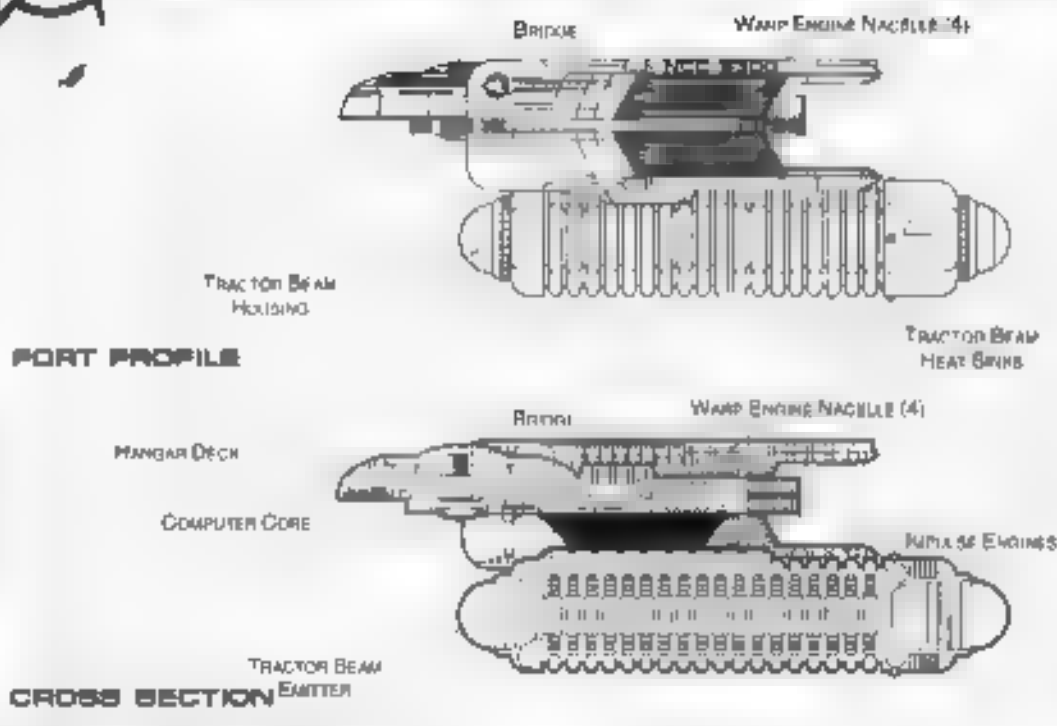
Top Silhouette
Area 7348.78 m²



Port Silhouette
Area 4084.01 m²



Front Silhouette
Area 1717.80 m²



Statistics

Classification: Tug
Category: Tug
Class: Todega
Type: Class 2
Model: MK2-B

Naval Construction Contract: 3000
Number Produced: 62

Number Constructed: 62

Number in Service: 78

Number Lost: 0

Dimensions:

Overall Dimensions (Meters):

Length: 33.4 m

Width: 82.0 m

Height: 41.38 m

Primary Hull Dimensions (Meters):

Length: 92.0 m

Width: 82.0 m

Height: 21.88 m

Secondary Hull Dimensions (Meters):

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters):

Length: 81.16 m

Width: 11.86 m

Height: 2.7 m

Displacement (Metric Tons):

Light: 1.42 mt

Standard: 5.500 mt

Full Load: 84288 mt

Performance: mt

Impulse Drive: Dual Dual (JBR10E/2-5A)

Impulse Engine Output: 940E 12 W

Impulse Power Index: 0.84

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.451 sec

0.25-0.50 Impulse: 0.710 sec

0.50-0.75 Impulse: 0.948 sec

0.75-Full Impulse: 165 sec

Warp Drive: 2 Nacelle Units (SU38/ 2RT)

Warp Engine Output: 9.68E+ 4 W

Warp Power Index: 0.64

Optimum Speed: 4

Max Safe Cruising: 4

Emergency Speed: 7

Max Speed: 8

Destructive Speed: 8.5

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.314 sec

Warp 2 Warp 3: 0.502 sec

Warp 3 Warp 4: 800 sec

Warp 4 Warp 5: 2.32 sec

Warp 5 Warp 6: 2.92 sec

Warp 6 Warp 7: 3.50 sec

Warp 7 Warp 8: 4.05 sec

Warp 8 Warp 9: 4.184 sec

Warp 9 Warp 9.5: 12.876 sec

Warp 9.5 Warp 9.75: 4.918 sec

Warp 9.75 Warp 9.9: 30.804

Duration (Years):

Standard: 4 Years

Maximum: 24 Years

Std. Ships Complement:

Officers: 0

Crew (Ensign Grade): 82

Troops: 1

Passengers: 0

Emergency condition: + 53.791

Medical Facilities:

Doc: 1m

Nurses: 2

Operating Rooms: 10

Beds: 5

Laboratories: 2

Isolation Level Total: 3

1 Person: 0

2 Person: 0

8 Person: 0

12 Person: 0

22 Person: 0

Small Cargo: 1

Medium Cargo: 0

Large Cargo: 0

Super Cargo: 0

Range: 3

Replicators: 4

Tractor Beams:

Tow Capacity: 29E+07 mt

Max Range: 2.50E+05 km

Cargo Specifications:

Standard Cargo Dials: 70

Cargo Capacity: 3500 mt

Shuttlecraft Specifications:

Docking Ports:

Shuttlecraft Bays Total: 1

Small Bay:

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 19

Work Bays: 1

Travel Pods:

Aquatic Shuttle:

Light Shuttle: 0

Standard Shuttle: 0

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 0

Killer Bays: 2

Light Fighter: 2

Fighter:

Heavy Fighter: 2

Lifeboats: 11

Turbolift (8 person): 7

Lifeboat (10 person): 3

Lifeboat (20 person): 1

Lifeboat (50 person): 0

Clashing Devices: 0

Sensor Index Values:

Planetary Survey: 0.1728

Stellar Survey: 0.3738

Short Range: 0.3817

Long Range: 0.8258

Navigation: 0.3229

Special: 0.0667

Computer: 2

Type: Daystrom Destructive Ind

Type: Daystrom Destructive Ind

ECM Index: 0.48

Shield Rating:

Shield Index: 0.29

Holdoff Power: 3.25E+1 W

Refresh Rate: 0.29E+10 W

Breakdown Rate: 1 E-11 W

Shield Dimensions (Meters):

Length: 200.12 m

Width: 124.48 m

Height: 1.02 m

Weapons:

Phaser Power Index: 0.063

Phaser Power Index: 0.000

Vestal Power Index: 0.042

Weapon Placement:

Beam (Phasers) Total: 2 banks 2 each

Output: 5.00E W 2.5E 1W

Range: 2.00E+05 km

Rate of Fire: 30 ppm Cont

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks:

Lower Banks:

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

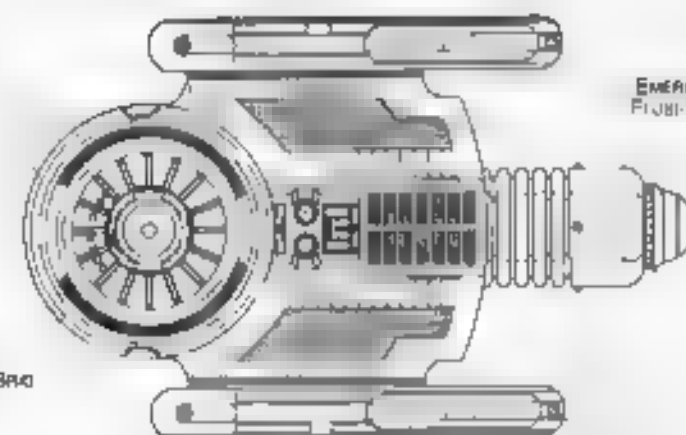
Upper Bay: 0

Lower Bay: 0



PHASER BANK

DEFLECTOR GRID

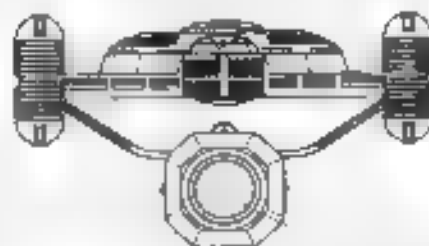
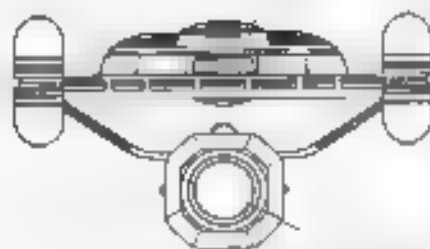
EMERGENCY
FLIGHT YARDSTRACTION BEAM
HOUSINGREACTION CONTROL
THRUSTER

WARP NACELLE (4)

TOP PROFILE

HANGAR DECK

IMPULSE ENGINES

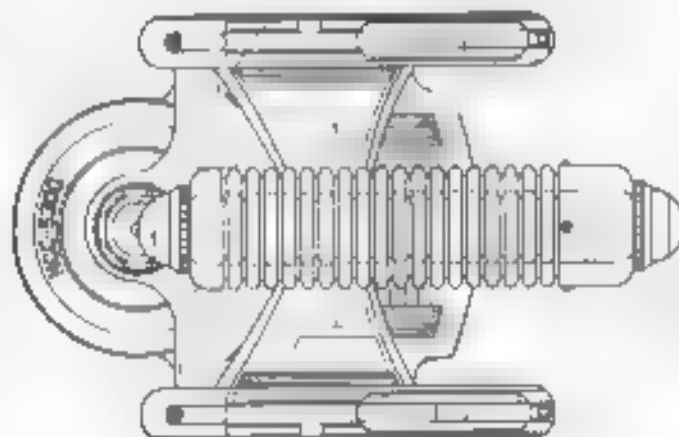
FORWARD TRACTION
BEAM EMITTERREAR TRACTION
BEAM EMITTER

FRONT PROFILE

REAR PROFILE

MAIN SENSOR
ARRAY

NAVIGATION DOME

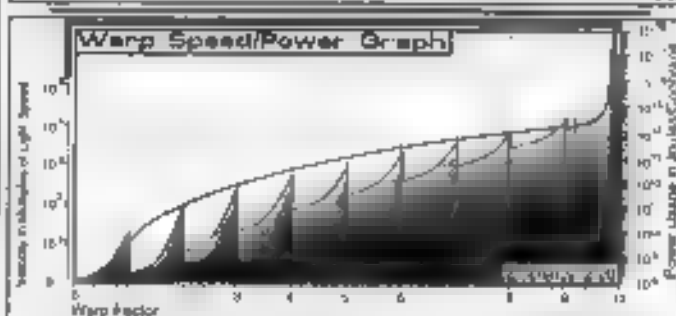
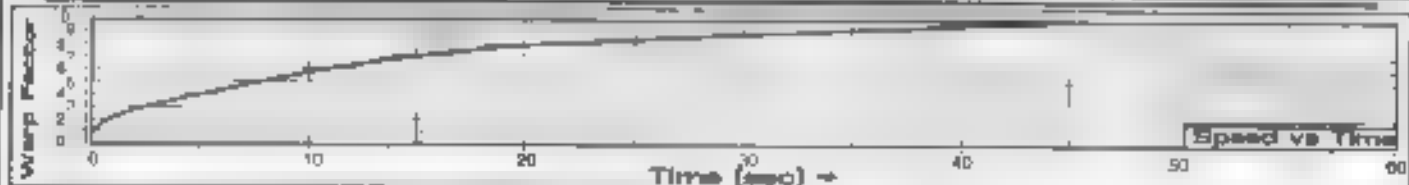
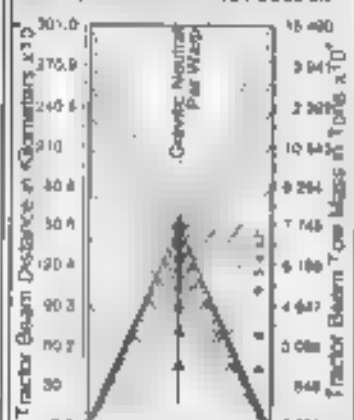
TRACTION BEAM
HOUSING

BOTTOM PROFILE



[illegible]

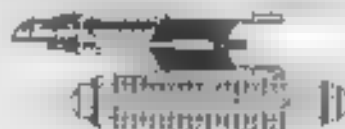
Primary Factor Beam Load Calculation



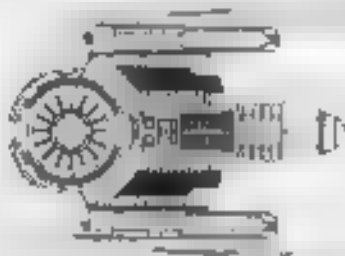
Field Length 448.30m
Field Width 1 to 7m
Field Height 74.88m



Front Warp Field Profile
Gross Section Area 7087.46 m²



Port Warp Field Profile
Cross Section Area 88541 30 m²



Top Warp Field Profile
Cross Section Area 41378.04 m²

WARP FIELDS

SAM3 04:03:11:04

STARFLEET REFERENCE MANUAL

TODEGA CLASS

FEDERATION VESSEL

CONTAINER TUG



General Information

The Container Tug is specific mission oriented vessel for the warp transport of single containers. When one or two containers are needed in a hurry the Deliverer class is the swiftest tug available. With few support systems and one weapon system this vessel can use 98% of its power for warp propulsion. A Maximum Class Dockport craft is always attached to the docking ring on the rear of the bridge.

Statistics

Classification: Support Ship
Category: Mission Tug
Class: Deliverer
Type: Tug
Model: 11
Naval Construction: Rembrandt 8000
Number Produced: 1
Number Deployed: 120
Number in Service: 120
Number Lost: 0
Manufacturer:
Overall Dimensions (Meters):
Length: 47.13m
Width: 40.4m
Height: 40.4m
Warp Unit Dimensions (Meters):
Length: 8.1m
Width: 2.0m
Height: 0.4m
Displacement (Metric Tons):
Standard: 528.22m
Full Load: 575.08m

Performance:
Impulse Units: Dual Unit (PP3562-FU)
Impulse Engines Output: 1.810¹² W
Max Cruising: 7
Acceleration Rate:
0.00-0.38 Impulse: 0.287 sec
0.38-0.80 Impulse: 0.361 sec
0.80-0.78 Impulse: 0.474 sec
0.78-Full Impulse: 0.568 sec
Warp Units: 4 Neural Units (SE087-SAC)
Warp Engine Output: 8x10¹⁴ W
On/Off: Speed: Warp 3
Max: Cruising: Warp 6
Emergency Speed: Warp 6
Max Speed: Warp 25
Destructive Speed: Warp 7.5
Acceleration Power: 3.0
Acceleration Times:
Warp 1: Warp 3: 0.748 sec
Warp 2: Warp 4: 2.00 sec
Warp 3: Warp 5: 4.532 sec
Warp 4: Warp 6: 8.618 sec
Warp 5: Warp 8: 8.864 sec
Warp 6: Warp 7: 5.28 sec
Warp 7: Warp 8: 8.580 sec
Warp 8: Warp 8: N/A

Duration (Years):
Standard: 7 years 30 Mos
1st Duty Assignment: 20
Officers:
Crew (Range Grade): 18
Troops: 0
Passengers: 0
Emergency condition: +4
Medical Facilities:
Doctors:
Nurses:
Operating Rooms: 1
Beds:

Transportation: 2
Small Air:
Transfer System:
Tug Capacity: 5x10¹⁰W
Max Range: 0.0017m
Structural Specifications:
Docking Ports:
Shuttlecraft: Standard
Travel Pods: 0
D/F Shuttle:
Lifeboats: 4
Twinnish (8 persons): 4

Support Index Values:
Planetary Survey: 1.222
Galaxy Survey: 0.402
Space Range: 475
Long Range: 0.455
Navigation: 0.478
Operat: 0.72

Computers:
Type: System: Duplex: 11
Type: System: Duplex: 11

Shield Matrix:
Shield Power: 2.45x10¹² W
Recharge Rate: 7.8x10¹⁰ W
Breakdown Rate: 0.2x10¹⁰ W
Shield Dimensions (Meters):
Length: 8.1m
Width: 12.5m
Height: 14.20m

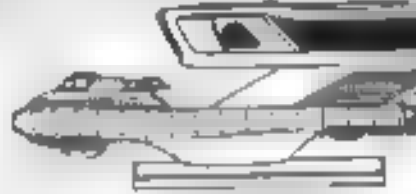
Weapons:
Weapon Placement:
Beam (Plasma) Total: 2x2 each
Output: 0.5 W 2.5x10¹⁰ W
Range: 2.5x10¹⁰ W
Rate of Fire: 30 rpm/Can
Forward Banks: 4

Navigation
Direction



FRONT PROFILE

Bridge



PORT PROFILE

Small Engine

Warp Engine Nozzle

Warp Nozzle



REAR PROFILE

Bridge



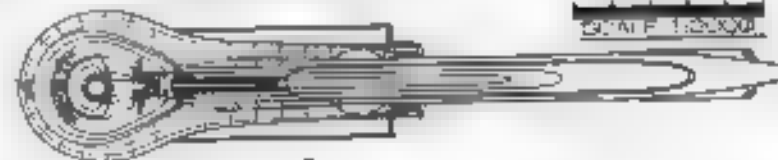
CROSS SECTION

Master/Attacker
Storage Facility

Interior Chamber

METERS
0 10 20 30 40 50
SCALE 1:2000

Plasma



TOP PROFILE

Navigation Dome

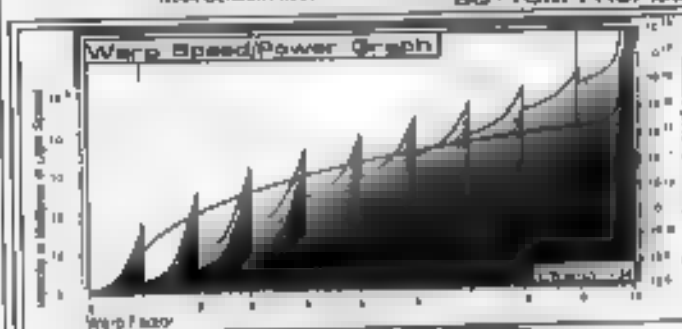


BOTTOM PROFILE

Main Sensor Array

CONTAINER
ATTACHMENT PLATE

REACTION CONTROL THRUSTERS



Field Length: 873.18m
Field Width: 110.50m
Field Height: 107.48m

Front Warp Field Profile
Cross Section Area: 9888.00 m²

Port Warp Field Profile
Cross Section Area: 48773.78 m²

Top Warp Field Profile
Cross Section Area: 47808.44 m²

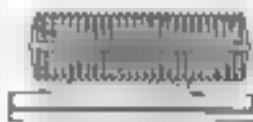


CONTAINER WARP EXTENDER

General Information

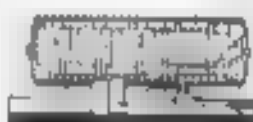
The Container Warp Extender simply extends a warp field by using a technique called sub-space resonance coupling. The design consists of an intermix of amber warp coils and fuel cells in a single housing mounted to a container attachment plate. Explosive bolts can blow the whole unit clear of the container in the event of an emergency.

Warp Enhancement Coils



PORT PROFILE

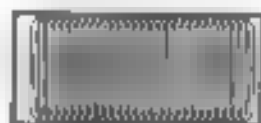
Warp Coils



CROSS SECTION

Infantry Chamber

MATTER/ANTIMATTER STORAGE TANKS



TOP PROFILE



FRONT PROFILE

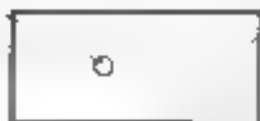
TURBOCUT
ACCELERATOR
SHAFTS

Coil Housing



REAR PROFILE

CONTAINER
ATTACHMENT
PLATE



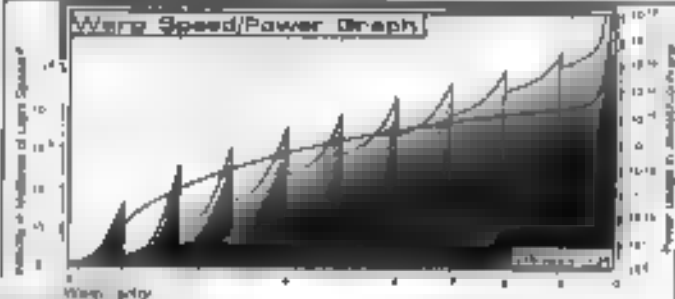
BOTTOM PROFILE

METERS

0 10 20 30 40 50

SCALE 1:2500

Warp Speed/Power Graph

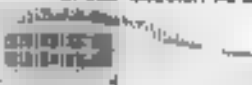


Field Length +231.8km
Field Width 1.0km
Field Height 107.4km



Front Warp Field Profile

Cross Section Area 2888.00 m²



Port Warp Field Profile

Cross Section Area +18780.08 m²



Top Warp Field Profile

Cross Section Area +17538.00 m²

Statistics

Classification: **Enhancer Class**
Category: **Enhancer Warp Extender**
Class: **Enhancer**
Type: **Enhancer**
Model: **Enhancer**

Level: **Enhancer Class**
Number of Engines: **200**
Number of Engines: **200**
Number of Engines: **200**
Number of Engines: **200**

Overall Dimensions (Meters)
Length: **20.0m**
Width: **10.0m**
Height: **10.0m**

Warp Unit Dimensions (Meters)
Length: **10.0m**
Width: **10.0m**
Height: **10.0m**

Displacement (Metric Tons)
Standard: **0.0m**
Bulkhead: **10.0m**

Performance
Inertial Units: **100**
Impulse Engines Output: **100**
Max. Thrust: **100**
Acceleration Ratio:

0.00 0.25 Impulse: **100**
0.25 0.50 Impulse: **100**
0.50 0.75 Impulse: **100**
0.75 Full Impulse: **100**

Warp Units: **100**
Warp Engine Output: **100**
Optimum Speed: **100**
Max. Thrust: **100**
Emergency Speed: **100**
Max. Speed: **100**
Decelerative Speed: **100**
Acceleration Power: **100**

Acceleration Thrust:
Warp 1: **100**
Warp 2: **100**
Warp 3: **100**
Warp 4: **100**
Warp 5: **100**
Warp 6: **100**
Warp 7: **100**
Warp 8: **100**
Warp 9: **100**
Warp 10: **100**

Direction (Y-axis)
Standard: **100**
Max. Thrust: **100**
Max. Thrust: **100**
Max. Thrust: **100**

Engine (Engine Grade): **100**
Engine: **100**
Engine: **100**
Engine: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

Transportation Total: **100**
Transport: **100**
Transport: **100**
Transport: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

Medical Facilities:
Doctors: **100**
Nurses: **100**
Operating Rooms: **100**
Beds: **100**

ENHANCER CLASS

FEDERATION CONTAINER

DEUTERIUM CONTAINER

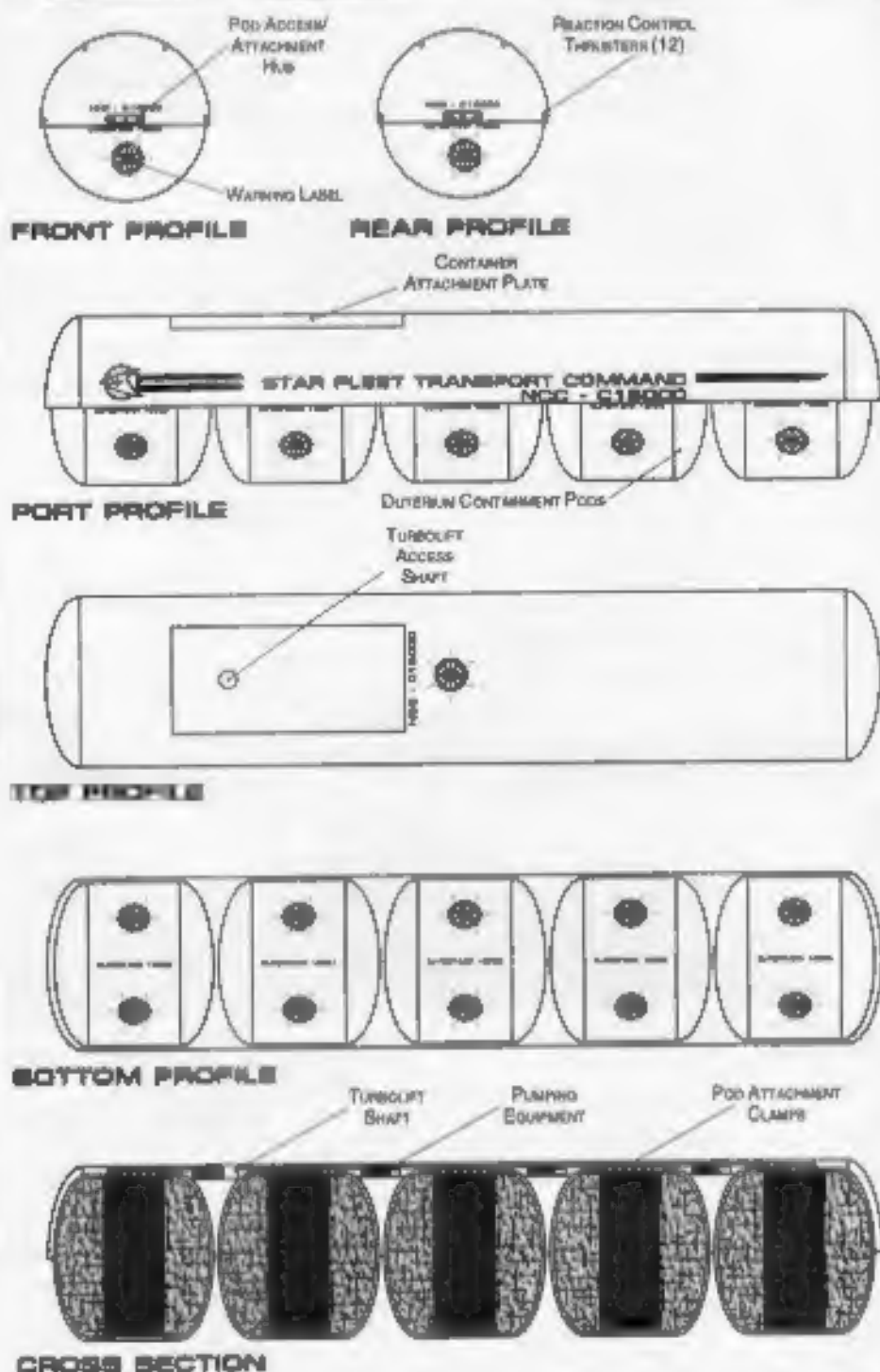


Statistics

Classification: Container
Category: Deuterium Container
Type: Class 7
Model: MK-XVI
Dimensions:
 Overall Dimensions (Meters)
 Length: 238.06m
 Width: 48.00m
 Height: 26.83 / 47.71m
 Displacement (Metric Tons)
 Standard: 125,356mt
 Full Load: 558,126mt
 Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 0
Officers: 0
Crew (Starline Grade): 0
Passengers: 0
Emergency condition: +0
Medical Facilities:
 Doctors: 0
 Nurses: 0
 Operating Rooms: 0
 Beds: 0
Transportation Total: 2
 1 Person: 0
 2 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 0
 Medium Cargo: 2
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
Troop Beams: 0
 Tow Capacity: N/A
 Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: N/A
 Cargo Capacity: N/A
 Deck Height: N/A
Shuttlecraft Specifications:
 Shuttlecraft Bays Total: 0
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 0
 Work Bee: 0
 Travel Pod: 0
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 0
 Assault Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
 Lifeboats: 0
 Turbolift (8 person): 0
 Lifeboat (10 person): 0
 Lifeboat (30 person): 0
 Lifeboat (50 person): 0
Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.000
 Short Range: 0.000
 Long Range: 0.000
 Navigation: 0.000
 Special: 0.000
Computers: 1
 Type: Daystrom Duotronic III
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
 Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.8m
 Height: 57.8m

General Information

The Deuterium Container is a modular deuterium super-tanker system. Each pod can be independently removed for use or service and can be jettisoned in an emergency.



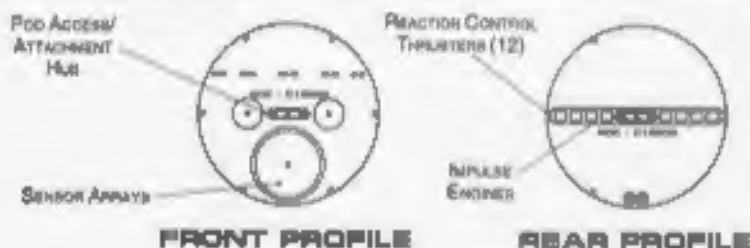
METERS
 0 10 20 30 40 50
 SCALE 1:2000



TENDER CONTAINER

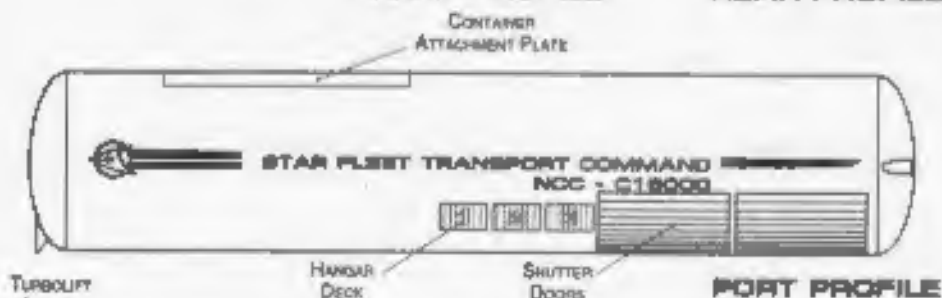
General Information

The Tender container carries parts and repair facilities normally to large or obscure to be included in a starships inventory. When attached to a container tug this facility can get to stranded vessels and replace their warp core or repair hull breaches before it has to be abandoned. Starfleet has saved much time and money with this system.

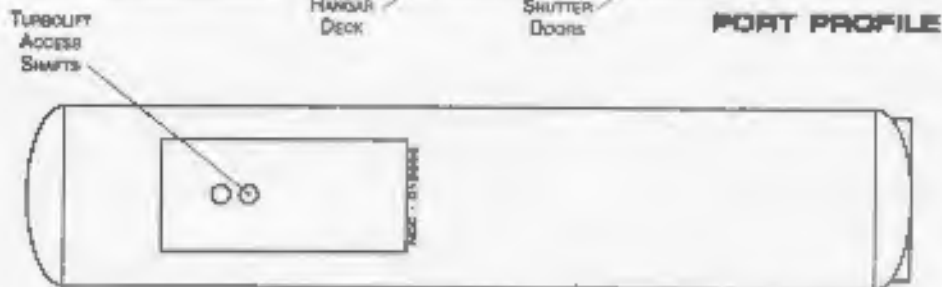


FRONT PROFILE

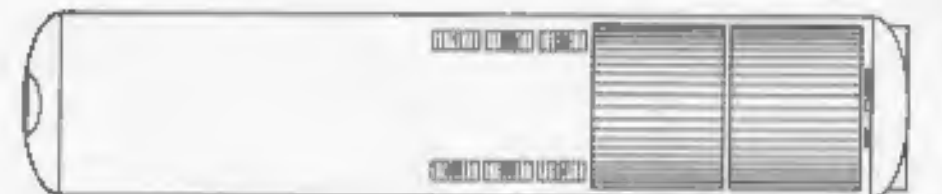
REAR PROFILE



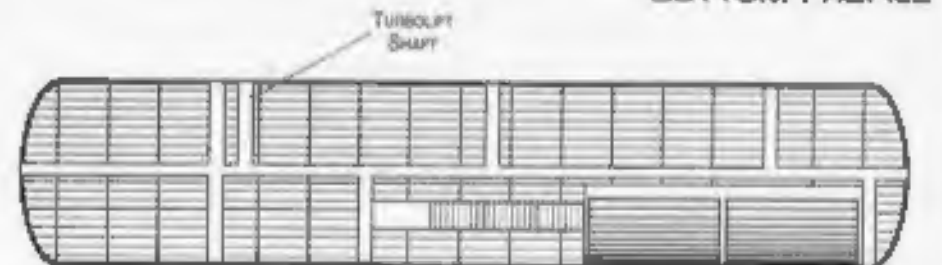
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

METERS
0 10 20 30 40 50
SCALE 1:2000

Statistics

Classification: Container
Category: Tender Container
Type: Class 7
Model: MK-XVI
Dimensions:
Overall Dimensions (Meters)
Length: 235.05m
Width: 48.00m
Height: 48.00m
Displacement (Metric Tons)
Standard: 235,347mt
Full Load: 347,442mt
Duration (Years)
Standard: 15 Years
Maximum: 20 Years
Std. Container Complement: 115
Officers: 15
Crew (Ensign Grade): 100
Passengers: 30
Emergency condition: +200
Medical Facilities:
Doctors: 2
Nurses: 8
Operating Rooms: 3
Beds: 10
Transporters Total: 12
1 Person: 0
2 Person: 0
3 Person: 4
12 Person: 2
23 Person: 0
Small Cargo: 0
Medium Cargo: 4
Large Cargo: 2
Super Cargo: 0
Mega Cargo: 0
Tractor Beams: 0
Tow Capacity: 1.25x10⁶mt
Max. Range: 2.51x10⁶km
Cargo Specifications:
Standard Cargo Units: 150
Cargo Capacity: 7,500 mt
Deck Height: 2.4 m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 3
Small Bay: 0
Medium Bay: 1
Large Bay: 2
Super Bay: 0
Shuttlecraft Standard: 13
Work Bays: 2
Travel Pods: 1
Light Shuttle: 1
Standard Shuttle: 2
Passenger Shuttle: 1
Light Cargo Shuttle: 2
Cargo Shuttle: 2
Heavy Cargo Shuttle: 2
Lifeboats: 7
Turbolift (4 person): 8
Lifeboat (10 person): 0
Lifeboat (20 person): 2
Lifeboat (50 person): 0
Docking Rings: 2
Repair Input Values:
Planetary Survey: 0.020
Short Range: 0.020
Long Range: 0.020
Navigation: 0.020
Special: 0.020
Computers: 1
Type: Daystrom Duotronic II2
Shield Rating:
Heldoff Power: 3.24E8
Refresh Rate: 9.21E7
Shield Dimensions (Meters)
Length: 282.01m
Width: 57.6m
Height: 57.6m

DELIVERANCE CLASS

FEDERATION CONTAINER

CLOSING

Closing Information

Closing

First off I would like to express my thanks to you for purchasing this book. I have tried to give the most information that I can for each ship without reducing the number of ships described. This in turn has lead to small print. I hope that this is not an inconvenience to anyone and if it is, I would like to express my deepest apology.

Stardate Errata

In place of the stardates, I have used the actual YEAR.MONTH due to the fact that I can not get an accurate stardate, as every group has a stardate system that while close, do not all match (Some systems differ by as much as 50 years). To achieve the stardate you need just use the date given and apply it to the stardate system you are acquainted with.

Warp speed Errata

I have had a number of people inquire as to why I have used the new warp curve system on older ships. The thing to understand here is that this curve also fits the older ships and is simply a conversion; when I get around to drawing the new ships the statistics will match and a ship to ship comparison can be made. A conversion chart has been included at the beginning of the ship section so that you can convert back to the old warp numbers.

Error in 1701B Cross Section

The cross section that appears in the back of the bridge is seriously flawed, if we assume the established length is 467 meters and the height is 74.93 meters. The bridge display cross section has 36 decks which works out to 2.08 meters (6.5 feet) per deck. This is a little on the short side since the average room height is 8 feet. The established deck height is 2.75 meters, which works out to 9 feet (8 feet to live in and 1 foot for flooring, conduit, supports and extra seldom seen high tech items). The location of the navigational deflector is shown over the cowl and not through as seen in the movie. The forward photon torpedoes are positioned in the connecting dorsal which would cause them to shoot off the navigational dome, which is probably a good reason why they had no torps until Tuesday. I changed the torp placement back to the original established location. I moved the rear torps into their original location for the same reason. The intermix chamber had to be moved since the new navigational deflector placement conflicted with the jettisoning of the core. The core is aligned with the deflection crystals, located on the upper engineering deck, which allows the core to be jettisoned through a plate in the navigational deflector opening. I have tried to match the remaining information provided in the cross section which shows the additions on the primary hull to be shuttle hangers (in the photos they look more like impulse engines). I decided to use them as hanger decks, but feel free to call them what you want.

Acknowledgments

I would like to acknowledge the many people, places, movies, magazines and reference materials that I have use to get the most accurate information for my work.

I would like to thank Chris Hatfield for his friendship and extensive help in re-writing my text in an effort to provide a better product.

I would like to thank the following magazines: Starlog, Future, Fantastic Films, Challenge, Stardate, Cinefix, Science Fiction Modeler, Fine Scale Modeler, Galactic Engineers Concordance and Digest Group for all the photos and excellent articles and insight that these magazines have given me in my research.

Thanks goes out to Joe Bob Williams for being my best distributor, his help on getting this book republished and to being a very unique individual.

I would also like to make note of Roy Firestone for his publication Galactic Engineers Concordance which is a non profit Technical that he publishes which is made up of contributions from his readers. Various articles that have been included have helped in my train of thought for creating my starship designs. Thanks to Roy and the contributors of GEC.

I would like to thank Magne Kristiansen, Richard Fisher, Don Shanks, Paul Hollingsworth, Scott Bell, Alex Rosenzweig, Thomas Sasser and Shane Johnson for their suggestions and proofing that helped me catch errors that might have slipped through if they had not spotted them.

I would also like to thank all the people who were involved in the original stories and artwork creations. By looking at their models, photos, sketches and story lines I was able to draw additional craft that I hope still retained much of the flavor of the original story. I am sorry that I am not able to list their names but in many instances I have no idea who these individuals are.

Special thanks to my wife RoseAnna for her help with the naming of ships in this book and for her putting up with my crazy work hours to finish it, thanks honey.

My daughters Jaculynn and Julian (where the name Jackill came from) for the daily reminders of the sweet things in life with their smiles and hugs.

And special thanks to Joshua and Michael Babunovic for their suggestions that I have used in this book.

And finally I would like to thank Eugenio Anguerra III for his contribution. Although he does not know it, a page he sent me caused me to include the tractor beam calculator for each ship. I modified the standard tractor beam calculator for the various warp speeds.

And finally Tiny I'm still not worthy but after moving you back from Houston I'm getting close.

What was required to produce this book

I want to include a little information on what it took to produce this book. My first book was Jackill's Guide to Light Attack Craft (Volume 1) which was produced using MacDraw II.

To produce this book I used Canvas 3.5.3b. While having its own drawbacks, Canvas has so much more power that I am able to produce a more professional product. Additional programs that I have used are WingZ (spreadsheet program used to calculate the ship statistics and warp speed conversions); Cricket Graph, Delta Graph (graphing programs to produce the graphs); MacWrite Pro (word processing program used to write the text); and a few other programs that have helped in small ways but are too numerous to list.

This book takes up over 80 Meg as compared to 34.1 Meg for Vol. 1 and 46.5 Meg for Vol. 2. This book contains 30,612 words (which works out to 152,892 characters, just in case you wanted to know) and 448,619 drawing elements (lines, circles, squares, etc.) and over 49.9 miles of mouse travel (determined by a program called Mouse Odometer) which works out to well over 263,472 full mouse pad travels.

Information About Back Page

I have provided the address's to a number of groups that my readers might also like to get hold of. All of these groups are provided space free of charge as my way of helping Trek Fandom expand and hoping that in the long run more movies and materials will be produced.

Jackill's Engineers

Chris Hatfield (C1), Dr. Eugenio Anguerra III (E3), Mark Wilson (E2:3), Shane Johnson (E2), Roger Sorensen (E1:2), Michael Alexander (E1), Scott Bell (E1:4), Don Conson (E1), Cliff Maxwell (E1), Alex Rosenzweig (E1), Thomas Sasser (E1), Don Shanks (E1).

Thanks for the contributions

I would like to thank the contributors to this issue. Michael Alexander (Cruiser, based of his NX-1701 drawings), Mark Wilson (Deuterium Tanker, Through Deck Cruiser the Through Deck Cruiser design led to the Dreadnought, Tactical, and Transport/Tug), Thomas Sasser (Heavy Frigate), Don Shanks (Frigate), Alex Rosenzweig (Light Cruiser, based on earlier designs he sent me) and finally Shane Johnson (Scout/ Destroyer based off of his Joshua Class Command Cruiser).

I wanted to include the Kobayashi Maru to the support section, I did not want to create a forth design (This ship has been drawn three times already with each design being different) I decided to base mine on Roger Sorensen's Kobayashi Maru blueprints (The originality and quality of these blueprints is wonderful, and I recommend these blueprints if you are a collector).

Concern (My own personal soap box)

Always remember the government works for us, they are there to protect our freedoms not take them away.

Warnings & Disclaimers

WARNING: This book will exert an equal but opposite force to any force applied to it. This is not unique to this book.

CAUTION: If the matter in this book were to instantaneously convert into pure energy the outcome of this explosion would destroy this world and cause massive gravitational shifts that would cause damage to the whole system. This feature is not unique to this book and we assume no responsibility for any damage that might occur.

NOTE: Any reference to any lifeform living, dead or non-corporeal is purely coincidental and most likely a figment of your imagination and you should seek professional help.

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Jackill's
STAR FLEET REFERENCE MANUAL
Ships of the Fleet
Volume III



3